






# ROGERS PASS WASHROOM FACILITY AND DAY USE AREA





ARCHITECTURAL	
<div><div><b>riddell kurczaba</b> architecture engineering interior design ltd. 1110 - 1st. Street SW. - Calgary, Alberta, Canada T2R 0V1 phone: 403.266.2100   fax: 403.266.2170   info@riddell.ca   www.riddell.ca</div></div>	
DRAWING LIST - ARCHITECTURAL	
SHEET NO:	SHEET NAME:
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INTERIOR	
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ID1.00	MAIN FLOOR FINISHES PLAN
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ID1.02	ENLARGED BARRIER FREE WASHROOM PLAN AND ELEVATIONS
ID1.03	INTERIOR ELEVATIONS
ID1.04	INTERIOR ELEVATIONS
ID1.05	INTERIOR ELEVATIONS

STRUCTURAL	
<div><div><b>rjc</b> Engineers Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</div></div>	
DRAWING LIST - STRUCTURAL	
SHEET NO:	SHEET NAME:
S-000	COVERSHEET
S-100	GENERAL NOTES AND TYPICAL DETAILS
S-101	GENERAL NOTES AND TYPICAL DETAILS
S-102	GENERAL NOTES AND TYPICAL DETAILS
S-103	GENERAL NOTES AND TYPICAL DETAILS
S-104	GENERAL NOTES AND TYPICAL DETAILS
S-201	FRAMING PLANS
S-202	ROOF FRAMING PLANS
S-301	SECTION AND DETAILS



MECHANICAL	
<div><div><b>EMBE</b> Innovative Sustainable Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</div></div>	
DRAWING LIST - MECHANICAL	
SHEET NO:	SHEET NAME:
M0	MECHANICAL LEGEND
M0S1	MECHANICAL SITE PLAN
M1	FLOOR PLAN - DRAINAGE LAYOUT
M2	FLOOR PLAN - PLUMBING LAYOUT
M3	FLOOR PLAN - H.V.A.C LAYOUT
M4	FLOOR PLAN - HYDRONIC LAYOUT
M5	MECHANICAL DETAILS
M6	MECHANICAL SCHEDULES

ELECTRICAL	
<div><div><b>EMBE</b> Innovative Sustainable Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</div></div>	
DRAWING LIST - ELECTRICAL	
SHEET NO:	SHEET NAME:
E0	ELECTRICAL LEGEND
E0S1	ELECTRICAL SITE PLAN
E1	FLOOR PLAN - LIGHTING
E2	FLOOR PLAN - POWER AND AUXILIARY
E3	ELECTRICAL SCHEDULES
E4	ELECTRICAL DETAILS

LANDSCAPE	
<div><div><b>NAVAGRAH</b> landscape architecture + urban design #204, 337 -17th Avenue SW, Calgary, AB T2S 0A5</div></div>	
DRAWING LIST - LANDSCAPE	
SHEET NO:	SHEET NAME:
L-1	LAYOUT PLAN
L-1.1	LAYOUT PLAN - CONCRETE CONTROL JOINTS
L-1.2	Unnamed
L-2	PLANTING PLAN
L-3.1	SECTIONS

CIVIL	
<div><div><b>CIVIL ENGINEERING SOLUTIONS INC.</b> CIVIL Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</div></div>	
DRAWING LIST - CIVIL	
SHEET NO:	SHEET NAME:
C-1	SITE EX & POST SERVICING PLAN
C-2	SITE GRADING PLAN
C-3	SITE OVERLAND AND DRAINAGE PLAN
C-4	DETAILS

INDEX	
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SHEET NO:	SHEET NAME:
I-1	OVERALL UTILITIES PLAN

<div><div><b>Parks Canada</b></div><div><b>Parcs Canada</b></div></div>		
Project title/Titre du projet		
<b>ROGERS PASS WASHROOM FACILITY AND DAY USE AREA</b>		
Approved by/Approuvé par AMINA OYAKHILOME		
Designed by/Concept par PETER SCHULZ		
Drawn by/Dessiné par FOLA OLAWOYIN		
Project Manager/Administrateur de Projets ANDREW OOSTING		
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie		
Client / client <b>Parks Canada</b>		
Drawing title / Titre du dessin		
COVER SHEET		
Project No. / No. du projet CAI 752	Sheet / Feuille A0.00	Revision no. / La Révision no. 5



GENERAL NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015, THE NATIONAL FIRE CODE 2015, THE OCCUPATIONAL HEALTH & SAFETY ACT, AND ANY OTHER AUTHORITIES HAVING JURISDICTION.
2. THESE DRAWINGS & SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE NOTES ON THE DRAWINGS. ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH DRAWINGS BY ELECTRICAL, MECHANICAL AND STRUCTURAL ENGINEERING CONSULTANTS.
3. REPORT ALL DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL, STRUCTURAL AND THE ARCHITECTS DRAWINGS TO THE OWNER PRIOR TO PROCEEDING WITH WORK.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, EXISTING AND NEW CONDITIONS AND REPORT ALL NON - CONFORMANCE TO THE OWNER, PRIOR TO CONSTRUCTION.
5. ALL SUBCONTRACTORS MUST FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR QUOTATION, AND OTHERWISE OBTAIN FOR THEMSELVES ANY INFORMATION REQUIRED TO SUBMIT A FIRM QUOTATION.
6. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE TO REGULATE AND ENFORCE LOCAL FIRE CODES AND BUILDING CODES AS SET FORTH BY LOCAL JURISDICTIONS FOR THE DURATION OF CONSTRUCTION.
7. ALL ARCHITECTURAL COMPONENTS WILL BE ENGINEERED AND INSTALLED BY THE RESPECTIVE SUPPLIERS & TRADES SO AS TO CONFORM WITH REQUIRED ANCHORAGE AND SEISMIC RESTRAINT AS PER ALL LOCAL CODES.
8. VERTICAL FACE OF HOUSEKEEPING PAD TO BE PAINTED YELLOW.
9. ALL DIMENSIONS TO FACE OF STUD UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
11. MAINTAIN DISTANCE OF 150mm FROM DOOR R.O. TO THE WALL PERPENDICULAR TO DOOR OPENING FOR ALL INTERIOR DOORS.

DRAWING SYMBOLS LEGEND:

SECTION SYMBOL:  
DETAIL NO.  
SHEET NO.

ELEVATION SYMBOL:  
DETAIL NO.  
SHEET NO.

DETAIL SYMBOL:  
DETAIL NO.  
SHEET NO.

TITLES SYMBOL:  
DETAIL NO.  
SHEET NO.

STRUCTURAL GRID SYMBOL:  
GRID NO.

ROOM NAME

ROOM NO.

DOOR & FRAME  
DOOR NO.

ROOF TYPE SYMBOL:  
ROOF TYPE

CEILING TYPE SYMBOL:  
CEILING TYPE  
HEIGHT

WALL TYPE SYMBOL:  
WALL TYPE

PARTITION TYPE SYMBOL:  
PARTITION TYPE

WINDOW TYPE SYMBOL:  
WINDOW TYPE

FLOOR TYPE SYMBOL:  
FLOOR TYPE

MATERIAL/FINISHES SYMBOL:  
FINISH TYPE

KEYNOTE SYMBOL:  
KEYNOTE NO.

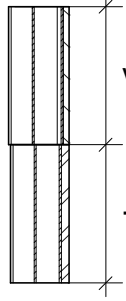


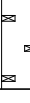






REVISIONS SYMBOL:  
REVISION NO.

ACCESSORY SYMBOL:  
ACCESSORY TYPE

ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF	MAN HOLE	MH
ALBERTA BUILDING CODE 2006	ABC	MASONRY OPENING	MO
ALUMINUM	ALUM	MAXIMUM	MAX.
ARCHITECTURAL	ARCH	MECHANICAL	MECH.
BARRIER FREE ACCESS	BFA	MEDIUM DENSITY FIBREBOARD	MDF
BOTH WAYS	B/W	METAL	MTL
BOTTOM	BOT	MISCELLANEOUS	MISC.
BOTTOM OF	B/O	MINIMUM	MIN.
BUILDING	BLDG	NATURAL	NAT.
CARPET	CP	NOT APPLICABLE	N/A
CAST IN PLACE	C.I.P.	NOT IN CONTRACT	N.I.C.
CEILING	CLG	NOT TO SCALE	N.T.S.
CENTRE LINE	C/L	NUMBER	NO.
CENTRE TO CENTRE	C/C	ON CENTRE	OC
CERAMIC TILE	CT	ORIENTED STRAND BOARD	OSB
COLUMN	COL	OUT TO OUT	O/O
COMPLETE WITH	C/W	OUTSIDE DIAMETER	O.D.
CONCRETE	CONC	OVERHEAD	OH.
CONTINUOUS	CONT	PAINT	PT
CORRIDOR	CORR	PLYWOOD	PLY.
CURTAIN WALL	CW	POLYETHYLENE	POLY.
		PRECAST CONCRETE	PC.CONC.
DETAIL(S)	DET	PREFINISHED	PREFIN.
DIMENSIONS	DIM	PROPERTY LINE	PL
DIAMETER	DIA	RAIN WATER LEADER	R.W.L.
DOWN	DN	REINFORCING	REIN.
DRAWING(S)	DWGS	REQUIRED	REQ.
EACH	EA	REVISION	REV.
ELEVATION	EL / ELEV	RIGHT OF WAY	R/W
ELECTRICAL	ELEC	ROOF DRAIN	R.D.
EQUAL	EQ.	ROUGH OPENING	R.O.
EXISTING	EXIST.	SIMILAR	SIM.
EXTERIOR	EXT	SPECIFICATIONS	SPEC.
EXTERIOR INSULATION	EFIS	STAINLESS STEEL	S.S
FINISH SYSTEM		STANDARD	STD
FACE OF	F/O	STEEL	ST
FINISH	FIN	STEEL STUD	SS
FIRE RATED	FR	STORAGE	STOR.
FIRE RESISTANCE RATING	FRR	TEMPERED	TEMP.
FLOOR	FLR	TEMPERED LAMINATED GLASS	TLG
FLOOR DRAIN	FD	TOP OF	T/O
FOOTING	FTG	TYPICAL	TYP.
		UNLESS OTHERWISE	UNO
GALVANIZED	GALV	UNDERSIDE	UIS
GAUGE	GA	UNDERWRITERS	
GLAZING	GL	LABORATORIES OF	
GRADE	GRD	CANADA	U.L.C.
GROUND FLOOR	GF	VAPOUR BARRIER	V.B.
GYP SUM WALL BOARD	GWB	VERTICAL	VERT.
GEODETIC	GEO.	WATER CLOSET	WC
INTERIOR	INT.	WATERPROOF	WP
JANITOR	JAN.	WALL TILE	WT
LAVATORY	LAV.	WOOD	WD

ASSEMBLIES

EXTERIOR WALL			
W1		VARIES  700	<u>EXTERIOR WALL</u>  NOTE: EXTERIOR FINISHES - REFER TO ELEVATION FOR MATERIAL AND COLOUR SEE ELEVATION FOR HEIGHT VARIATION REFER TO DRAWING 1 & 2 ON A7.00 FOR SYSTEM ASSEMBLY  UPPER WALL: BEVELED SIDING, SHIPLAP JOINT WOOD PLANKS BUILDING PAPER 15.5 mm THK EXTERIOR GRADE PLYWOOD SHEATHING 152 mm DEEP THERMAL SPACER VERTICAL APPLICATION c/w 25 mm DEEP VERTICAL Z-GIRT FASTENING TO LINE-UP W/ VERTICAL WOOD STUD 2 LAYERS OF 76 mm THK SEMI-RIGID MINERAL FIBRE INSULATION R-VALUE: 24.0 2-PLY BUILDING PAPER 15.5 mm THK. EXTERIOR GRADE PLYWOOD SHEATHING 38 mm x 140 mm WOOD STUDS SPACED @ 400 mm O.C. BATT INSULATION IN STUDS CAVITY R-VALUE: 21.0 6mil POLYETHYLENE VAPOUR BARRIER 16 mm THK GYPSUM WALL BOARD  LOWER WALL: ROCK VENEER MORTAR, BOND COAT MORTAR, SCRATCH COAT AIR BARRIER AS REQUIRED 16 mm THK EXTERIOR GRADE CEMENT BOARD 152 mm DEEP GALV. STEEL VERTICAL Z-GIRT SPACING TO LINE-UP w/ WOOD STUDS 2 LAYERS OF 76 mm THK SEMI-RIGID MINERAL FIBRE INSULATION R-VALUE: 24.0 2-PLY BUILDING PAPER 15.5 mm THK. EXTERIOR GRADE PLYWOOD SHEATHING 38 mm x 140 mm WOOD STUDS SPACED @ 400 mm O.C. BATT INSULATION IN STUDS CAVITY R-VALUE: 21.0 6mil POLYETHYLENE VAPOUR BARRIER 16 mm THK GYPSUM WALL BOARD
	W2		<u>EXTERIOR WALL</u>  EXTERIOR FINISHES - REFER TO ELEVATION FOR MATERIAL AND COLOUR STANDING SEAM METAL WALL PANEL (24ga) 0.61 mm THK W/ GALVALUME COATING NON-PENETRATING THERMAL CLIPS w/ THERMAL PADS 2 LAYERS OF 76 mm THK SEMI-RIGID MINERAL FIBRE INSULATION R-VALUE: 24.0 2-PLY BUILDING PAPER 15.5 mm THK. EXTERIOR GRADE PLYWOOD SHEATHING 38 mm x 140 mm WOOD STUDS SPACED @ 400 mm O.C. BATT INSULATION IN STUDS CAVITY R-VALUE: 21.0 6mil POLYETHYLENE VAPOUR BARRIER 16 mm THK GYPSUM WALL BOARD
<b>NOTE:</b> REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS ALONG EXTERIOR WALL.			
PARTITION WALL			
GENERAL WALL	P1		<u>PARTITION WALL</u>  16 mm GYPSUM BOARD 38x89mm WOOD STUDS @ 400mmO.C. 16 mm GYPSUM BOARD
	P2		<u>PARTITION WALL</u>  16 mm GYPSUM BOARD TWO ROWS 38x89mm WOOD STUDS STAGGERED @ 400mmO.C CLEAR WIDTH 241mm (OUT TO OUT OF STUDS) 16 mm GYPSUM BOARD
PLUMBING WALL	P3		<u>PLUMBING WALL</u>  16 mm MILDEW RESISTANT GYPSUM BOARD (WASHROOM SIDE) 38x140mm WOOD STUDS @ 400mmO.C
RATED WALL	P4		<u>1HR FRR-BASED ON UL U333</u>  16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT 38x140mm WOOD STUDS SPACED @ 400mmO.C 16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT
	P4a		<u>1HR FRR-BASED ON UL U333</u>  16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT TWO ROWS 38x89mm WOOD STUDS STAGGERED @ 400mmO.C CLEAR WIDTH 241mm (OUT TO OUT OF STUDS) 16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT
ROOF			
R1		HYBRID ROOF SYSTEM: STANDING SEAM METAL ROOF PANEL (24ga) 0.61mm THK WITH GALVALUME COATING NON-PENETRATING THERMAL CLIPS INSTALLED ON NEOPRENE BEARING PLATES, SPACING AS DETERMINED BY ENGINEER SYNTHETIC NON-WOVEN GEOTEXTILE LAYER, DRAINAGE MAT 1 LAYER OF 127mm THK HIGH DENSITY UNCOATED MINERAL FIBRE INSULATION BOARD (R-VALUE: 21.5) 1 LAYER OF 102mm THK POLYISOCYANURATE RIGID FOAM INSULATION BOARD (R-VALUE=22.8) 3mm P&S SBS A/B MEMBRANE 89mm DEEP COMMERCIAL GRADE WOOD T&A PLANK DECKING 203mm x 305mm SOLID WOOD RAFTER	
FLOOR			
F1		250mm THK REINFORCED CONCRETE SLAB ON GRADE AS PER STRUCTURAL 10ml POLY VAPOUR BARRIER COMPACT GRANULAR FILL (THICKNESS AS PER STRUCTURAL) (SLOPE SLAB TOP TO TRENCHES / FLOOR DRAINS WHERE REQUIRED / INDICATED ALL FLOOR DRAIN COVERS TO FINISH SMOOTH TO ADJACENT FLOOR FINISHES)	
F2		125mm THK REINFORCED CONCRETE SLAB ON GRADE AS PER STRUCTURAL INFILL SLAB ALONG MECHANICAL CHASE 10ml POLY VAPOUR BARRIER COMPACT GRANULAR FILL (THICKNESS AS PER STRUCTURAL) (SLOPE SLAB TOP TO TRENCHES / FLOOR DRAINS WHERE REQUIRED / INDICATED ALL FLOOR DRAIN COVERS TO FINISH SMOOTH TO ADJACENT FLOOR FINISHES)	

2015 NATIONAL BUILDING CODE OVERVIEW

GENERAL DESCRIPTION & REQUIREMENTS		
MAJOR OCCUPANCIES	GROUP A DIVISION 2 (Part 3) 3.2.2.25	
OCCUPANCY CLASSIFICATIONS	ASSEMBLY	
BUILDING AREA	BUILDING AREA - 319m² + COLUMNADE - 97.54m2 = 416.54 m²	
NUMBER OF STOREYS	1	
CONSTRUCTION TYPE	COMBUSTIBLE	
STRUCTURAL FIRE-RESISTANCE REQUIREMENTS		
FLOOR ASSEMBLY	NO RATING REQUIRED	
LOADBEARING WALLS & COLUMNS	NO RATING REQUIRED	
ROOF ASSEMBLY	NO RATING REQUIRED	
FIRE ALARM & SUPPRESSION SYSTEMS		
AUTOMATIC SPRINKLER SYSTEM	NOT REQUIRED	
FIRE ALARM SYSTEM	NOT REQUIRED	
STANDPIPE SYSTEM	NOT REQUIRED	
EGRESS AND EXITING		
MAXIMUM TRAVEL DISTANCE	30 m	
NUMBER OF EXITS	AT LEAST 2 EXITS ARE REQUIRED (INDEPENDENT OF EACH OTHER)	
OCCUPANT LOAD	1 PER WASHROOM - TOTAL OF 17 PERSONS	
	44 m² OF ASSEMBLY SPACE WITH FIXED SEATS -0.75 m2 PER PERSON = 59 PERSONS	
	MAXIMUM 76 PERSONS	
BARRIER-FREE DESIGN		
ENTRANCES	50% OF ALL ENTRANCES ARE REQUIRED TO BE BARRIER FREE.	
PATH OF TRAVEL	920 mm MINIMUM	
DOORS	POWER OPERATED DOORS ARE NOT REQUIRED BUT WILL BE PROVIDED CLEAR DOOR WIDTH OF 800 mm MINIMUM	
WASHROOMS	1500 MM DIAMETER TURNING CIRCLE INSIDE ROOM CLEAR DOOR WIDTH OF 850 MM DIMENSION FROM CENTERLINE OF WATER CLOSET TO SIDE WALL: BETWEEN 460 mm – 480 mm WATER CLOSET CLEARANCE: HAVE A CLEAR FLOOR SPACE AT LEAST 900 mm WIDE THAT IS PARALLEL AND ADJACENT TO THE OPEN SIDE OF THE WATER CLOSET GRAB BARS REQUIRED AS PER SENTENCE 3.8.3.8 (2)	
INTERIOR FIRE SEPARATIONS		
ROOM/ SPACE	FIRE-RESISTANCE RATING OF FIRE SEPARATION	FIRE-PROTECTION RATING OF CLOSURE
ROOMS CONTAINING FUEL-FIRED APPLIANCES	1 HR	45 MIN
ELECTRICAL ROOMS	1 HR	45 MIN
JANITOR'S ROOM	45 MIN	45 MIN



Park Canada  
Government Services  
Canada

Park Canada  
Services gouvernementaux  
Canada

PROJECT DELIVERY SERVICES WEST  
Strategic Policy and Investment Directorate  
EXÉCUTION DE PROJETS DE L'OUEST  
Direction générale des Politiques stratégiques  
et d'investissement

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5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18
Revision / Révision	Description / Description	Date / Date

Client / client



Parks  
Canada

Parcs  
Canada

Project title/Titre du projet

ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

Approved by/Approuve par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
PID DAYANON

Project Manager/Administrateur de Projets  
ANDREW DOOSTING

Architectural and Engineering Resources Manager/  
Ressources Architecturale et de Directeur d'ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

SYMBOL LEGEND, ABBREVIATIONS,  
CONSTRUCTION ASSEMBLIES, CODE  
REVIEW

Project No. / No. du  
projet

CAI 752

Sheet / Feuille

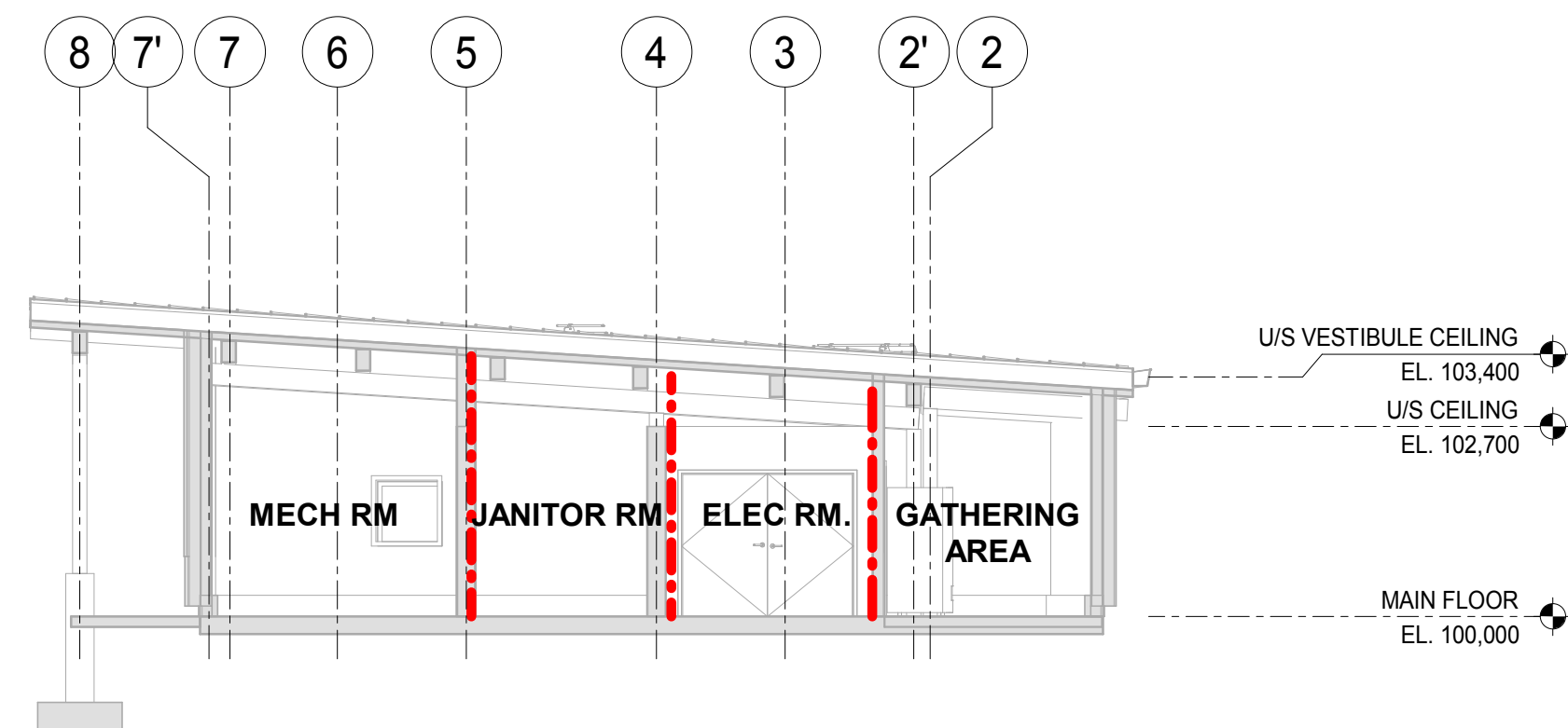
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Revision no. /  
La Révision  
no.

5







Architectural section drawing of the main floor. The drawing shows a cross-section of the building with various rooms and structural elements. Key features include:

- Rooms:** JANITOR RM, ELEC RM. (Electrical Room), WC 4 (Toilet), and GATHERING AREA.
- Elevations:**
  - U/S VESTIBULE CEILING EL. 103.400
  - U/S CEILING EL. 102.700
  - MAIN FLOOR EL. 100.000
- Grid Lines:** A, B, C, D, E, F', F, G' are marked along the top of the section.
- Structural Elements:** The drawing shows the floor slab, ceiling, and walls. A red dashed line indicates a vertical structural element or boundary.
- Other Labels:** "WC 4" is labeled near a toilet fixture. "ELEC RM." is labeled near a vertical red dashed line.

MECH RM



WC 1

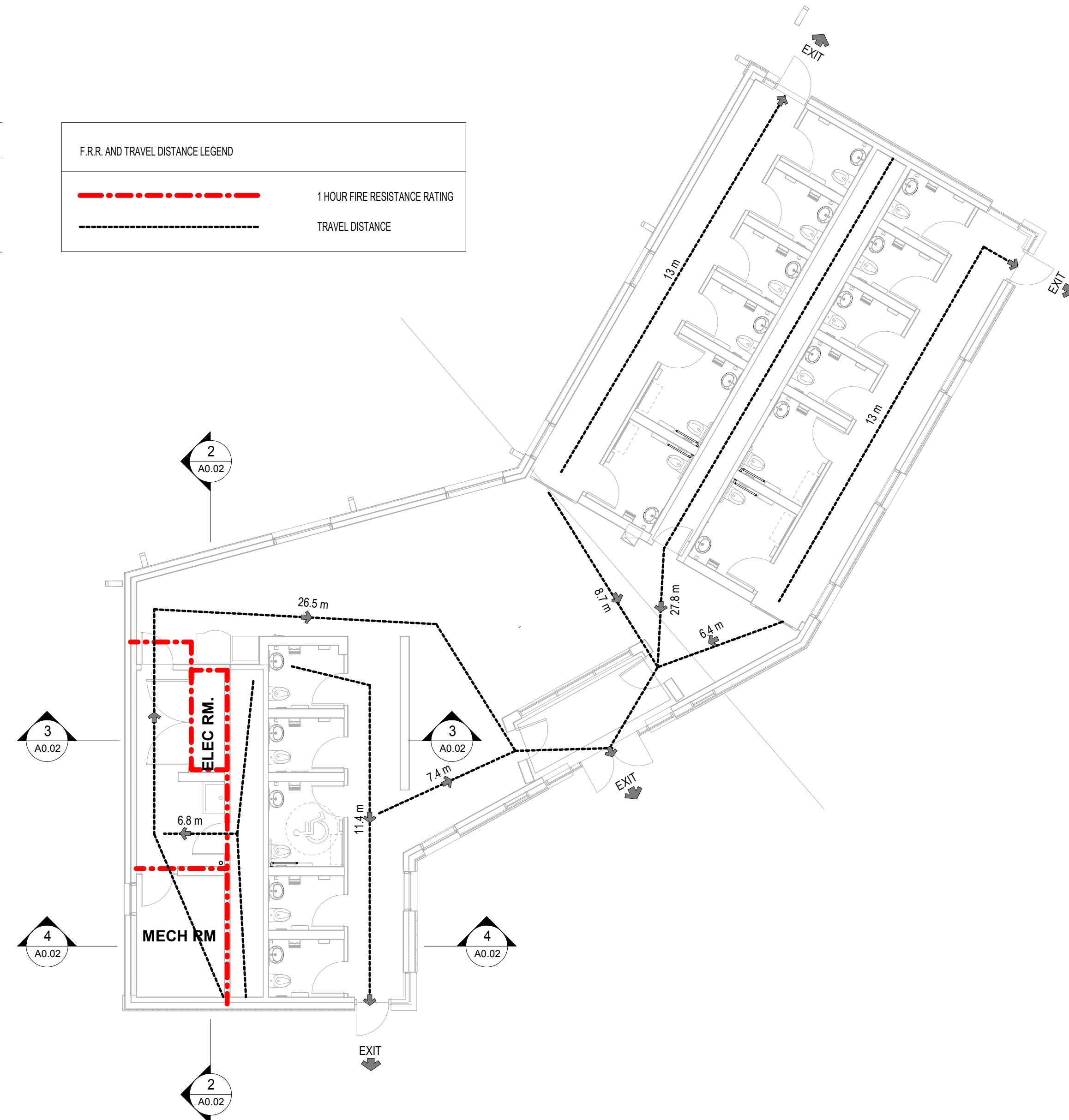
GATHERING AREA

U/S VESTIBULE CEILING  
EL. 103.400

U/S CEILING  
EL. 102.700

MAIN FLOOR  
EL. 100.000

F.R.R. AND TRAVEL DISTANCE LEGEND	
	1 HOUR FIRE RESISTANCE RATING
	TRAVEL DISTANCE



**FLOOR PLAN - FIRE RESISTANCE RATING  
AND TRAVEL DISTANCE**

Client / client
-----------------



Project title/Titre du projet
-------------------------------

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuve par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

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Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie

Client / client
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Parks Canada

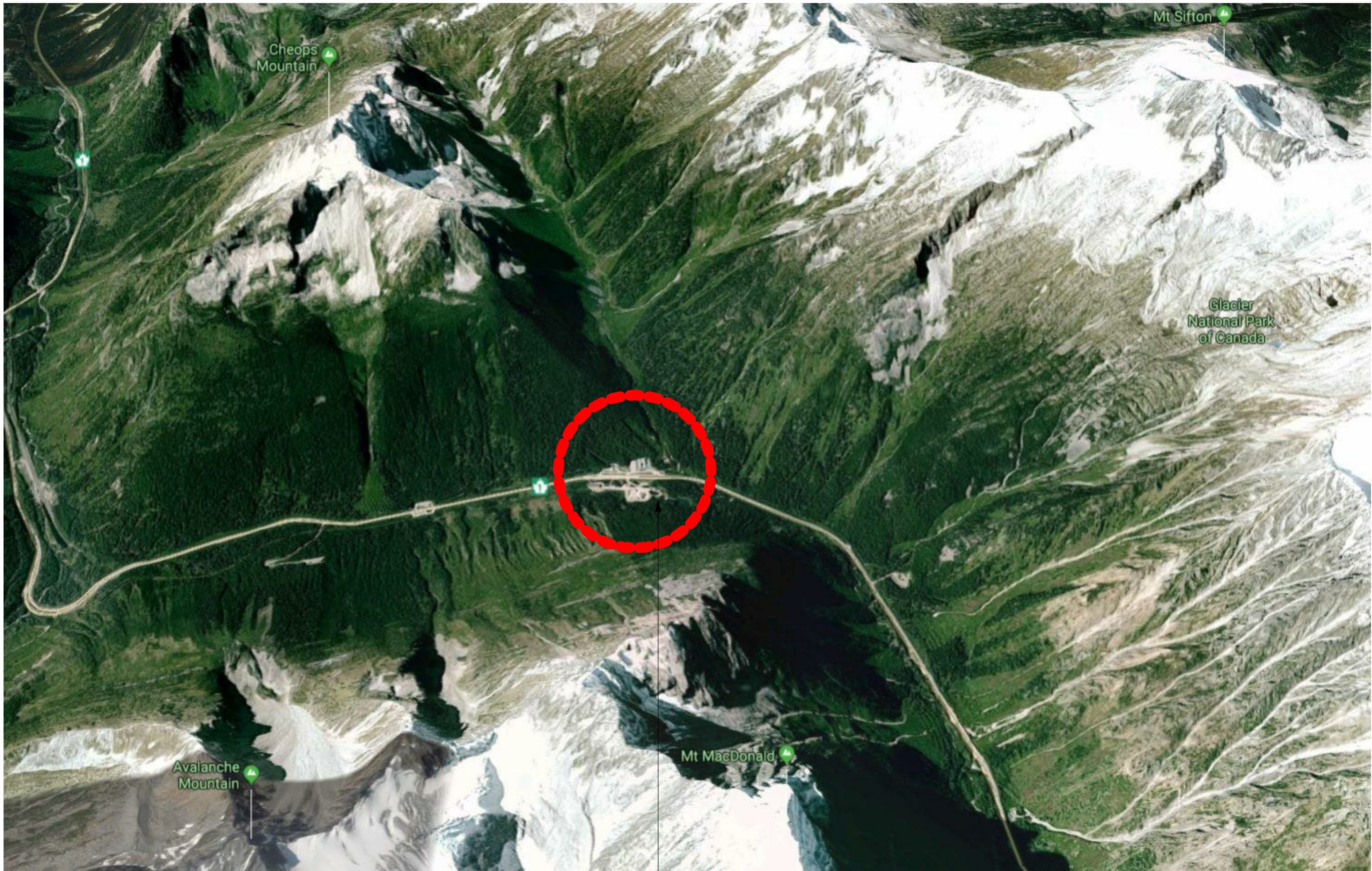
FIRE SEPARATION / TRAVEL DISTANCE

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A0.02	4





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**1** **CONTEXT MAP**  
A0.03 SCALE: NTS

NOTE: APPROXIMATE DISTANCE  
FROM GOLDEN IS 80.8 km AND  
FROM REVELSTOKE IS 67.8 km

PROPOSED SITE  
51.301795, -117.521540. GENERAL CONTRACTOR TO  
CONFIRM EXACT LOCATION OF BUILDING WITH  
DEPATMENTAL REPRESENTATIVE



**2** **PROPOSED WASHROOM LOCATION**  
A0.03 SCALE: NTS

3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90%	08-20-18
Revision / Révision	Description / Description	Date / Date

Client / client





Parks  
Canada

Parcs  
Canada

Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

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ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
**Parks Canada**

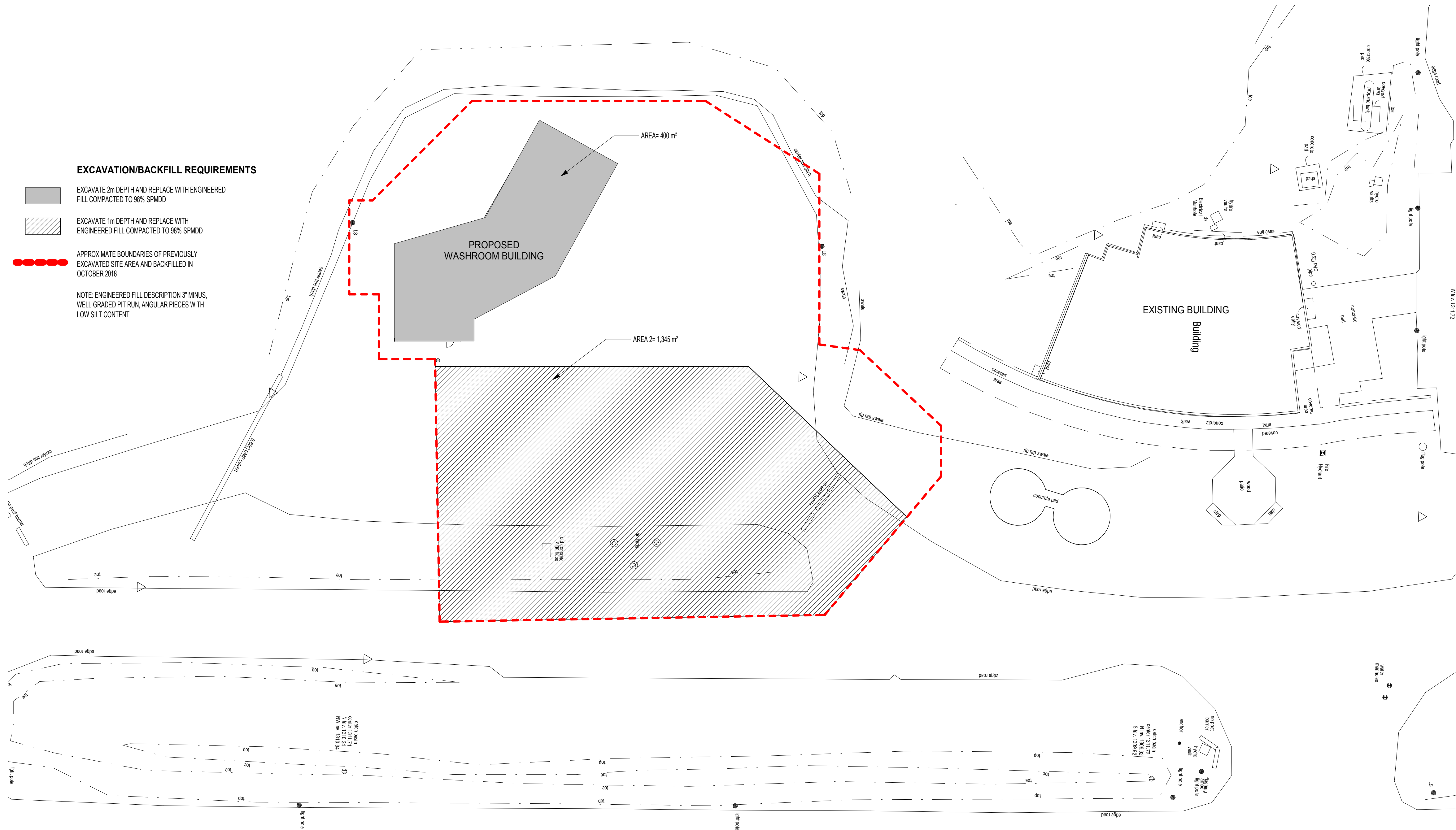
Drawing title / Titre du dessin

LOCATION PLANS

Project No. / No. du projet CAI 752	Sheet / Feuille A0.03	Revision no. / La Révision no. 3
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**NOTES**

1. For Area 1 is defined as the building footprint plus a buffer of 1 m, including the front columns. This area should be excavated to a depth of 2 m below the existing ground surface.
2. Results of compaction of the previously backfilled can be found in appendices.
3. The contractor should retain a geotechnical engineer to confirm the compaction and to provide the load bearing capacity of the soil underneath the building.
4. All backfilled material should be underlain by a geotextile.
5. Construction of engineered fill in maximum 150 mm lifts 98% SPMDD.
6. Contractor should maintain appropriate backslopes for all excavations.
7. All excavation limits will be confirmed with Departmental Representative prior to excavation

**1 EXCAVATION/BACKFILL REQUIRMENTS**  
A0.04 SCALE: 1 : 300

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Revision / Révision	Description / Description	Date / Date
1	ISSUED FOR TENDER	12-14-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
MARAL SAFARZADEH

Project Manager/Administrateur de Projets  
ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

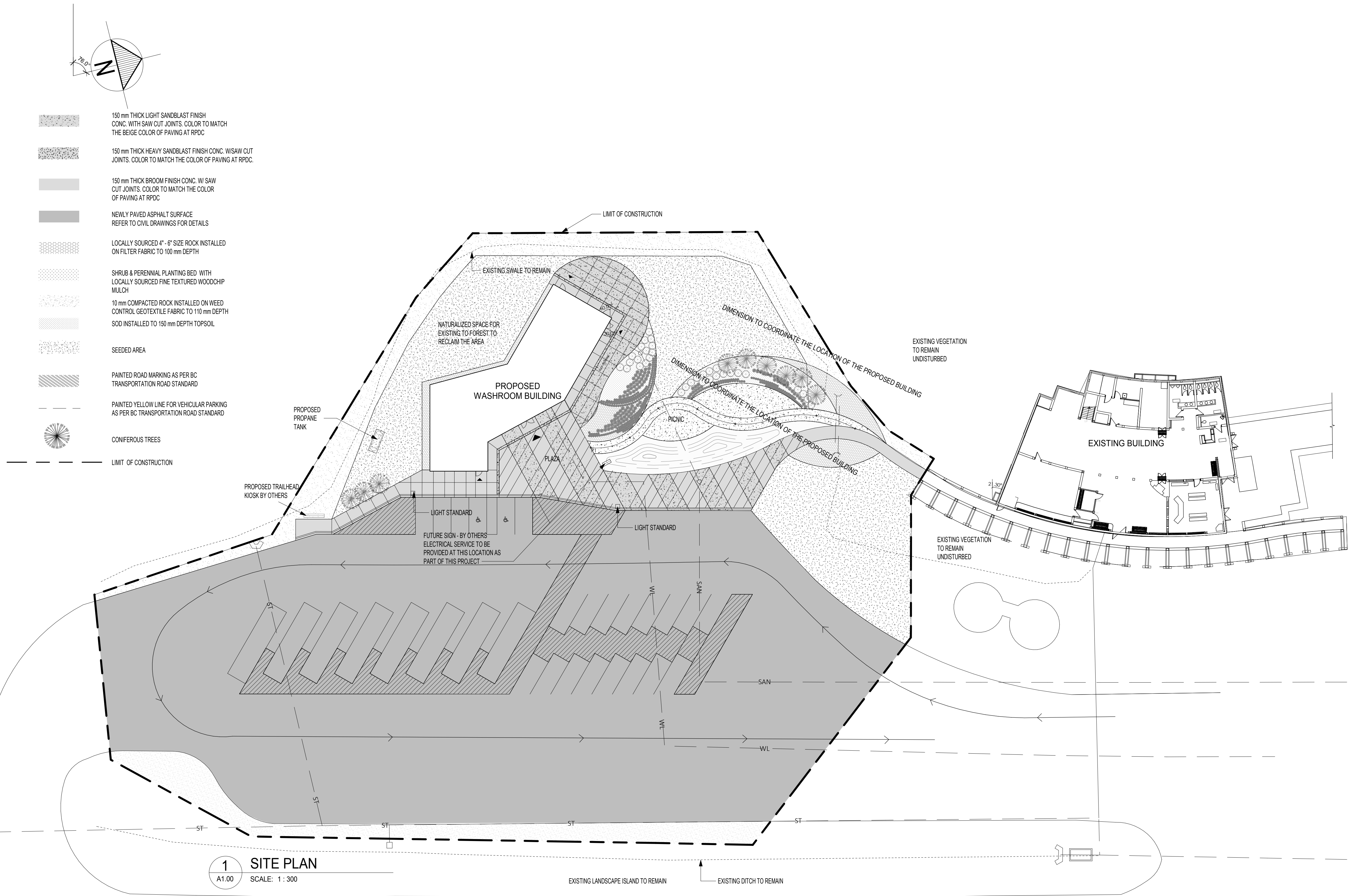
**Parks Canada**

Drawing title / Titre du dessin

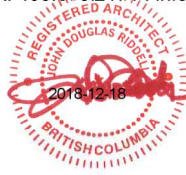
EXCAVATION PLAN AND DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A0.04	1





1 SITE PLAN  
A1.00 SCALE: 1 : 300



5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Revision / Révision	Description / Description	Date / Date
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Client / client



Project title/Titre du projet

ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

Approved by/Approuvé par AMINA OYAKHILOME
Designed by/Concept par PETER SCHULZ
Drawn by/Dessiné par MARAL SAFARZADEH
Project Manager/Administrateur de Projets ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

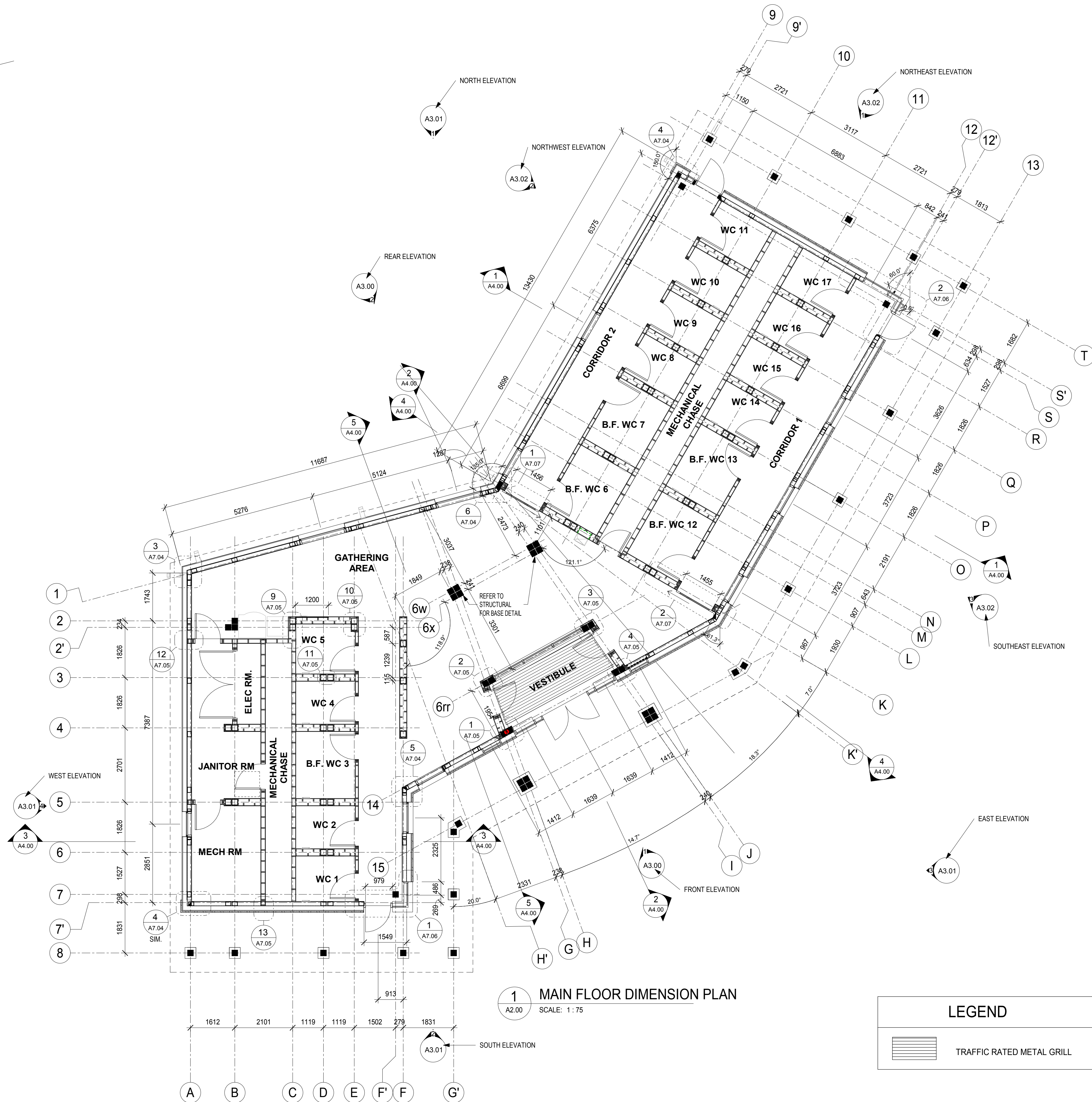
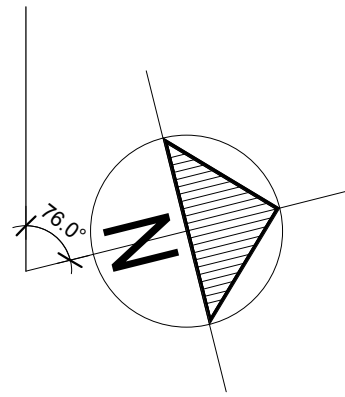
Drawing title / Titre du dessin

SITE PLAN

Project No. / No. du projet CAI 752	Sheet / Feuille A1.00	Revision no. / La Révision no. 4
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1 MAIN FLOOR DIMENSION PLAN  
SCALE: 1 : 75

LEGEND	
	TRAFFIC RATED METAL GRILL



Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approve par AMINA OYAKHILOME
Designed by/Concept par PETER SCHULZ
Drawn by/Dessiné par MARAL SAFARZADEH
Project Manager/Administrateur de Projets ANDREW OOSTING
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

MAIN FLOOR DIMENSION PLAN

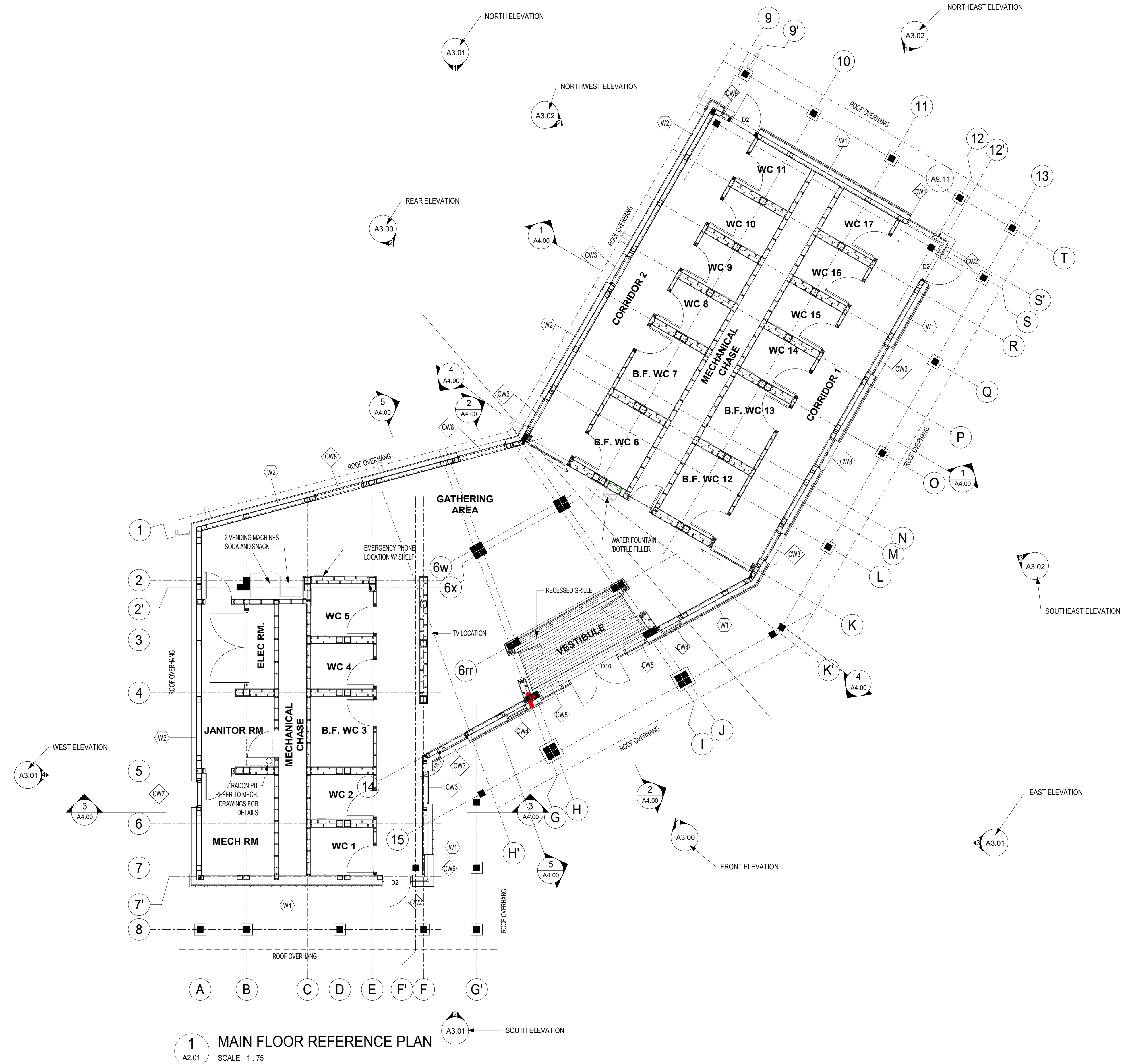
Project No. / No. du projet CAI 752	Sheet / Feuille A2.00	Revision no. / La Révision no. 5
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5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 80%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
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Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

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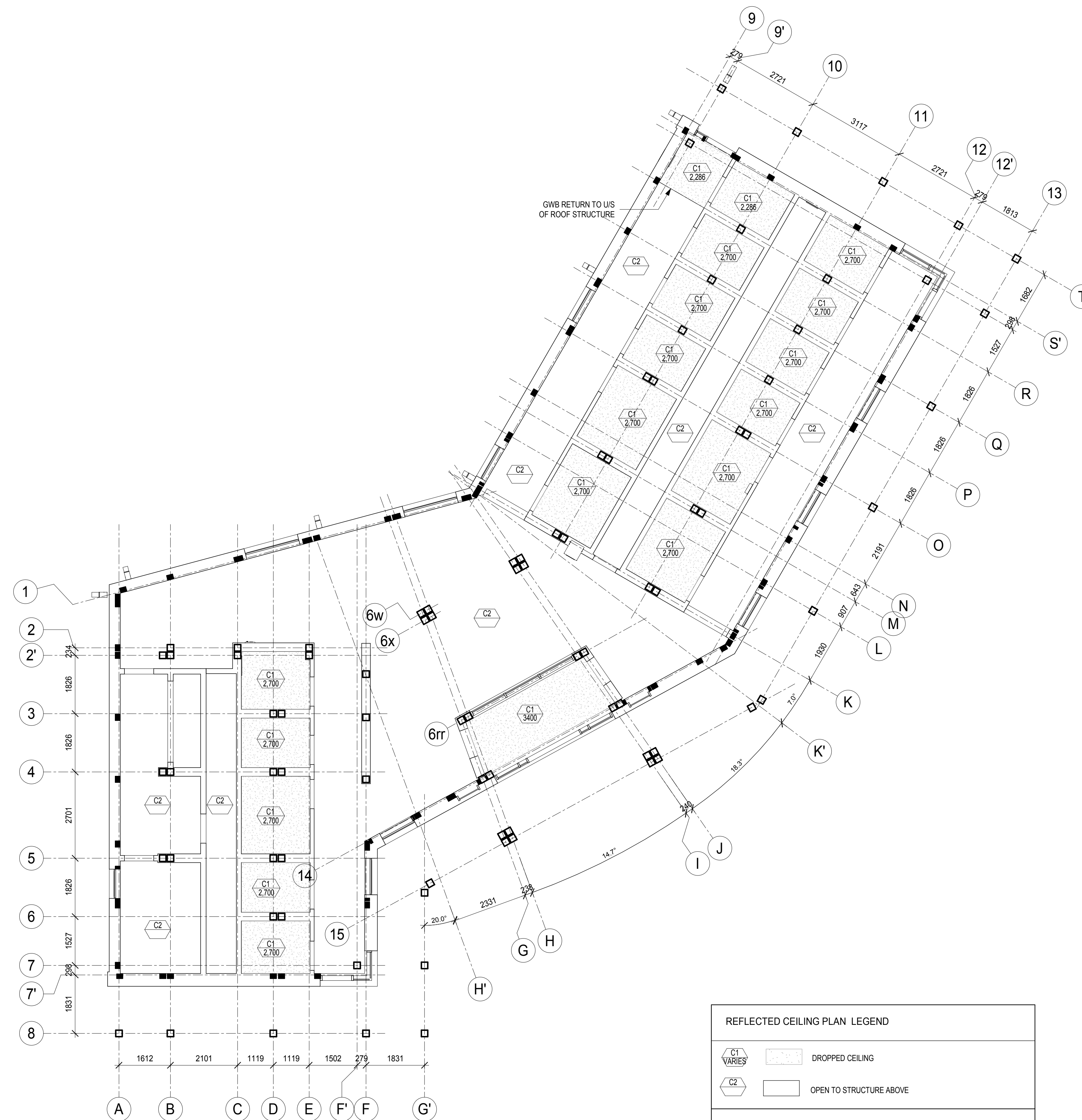
Drawing title / Titre du dessin

**MAIN FLOOR REFERENCE PLAN**


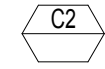
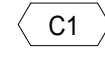
Project No. / No. du projet CAI 752	Sheet / Feuille A2.01	Revision no. / La Révision no. 5
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**2 REFLECTED CEILING PLAN**  
A2.02 SCALE: 1 : 75

REFLECTED CEILING PLAN LEGEND		
	C1 VARIES	DROPPED CEILING
	C2	OPEN TO STRUCTURE ABOVE
CEILING FINISHES		
	PRODUCT TYPE:	EGGSHELL HIGH DURABILITY SCRUBBABLE PAINT - LOW V.O.C
	COLOR NAME:	TO BE DETERMINED
	FINISH:	EGGSHELL HIGH-DURABILITY
	LOCATION:	AS INDICATED ON REFLECTED CEILING PLAN
	NOTE:	ENSURE NO VISIBLE STREAKING



 **Parks Canada** **Parcs Canada**

Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

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Client / client

**Parks Canada**

Drawing title / Titre du dessin

REFLECTED CEILING PLAN

Project No. / No. du  
projet  
CAI 752

Sheet / Feuille  
A2.02

Revision no. /  
La Révision  
no.  
5

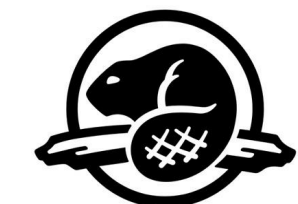


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4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	08-20-18
1	ISSUED FOR 60%	05-31-18

Client / client




 Parks Canada  
 Parcs Canada

Project title/Titre du projet

# ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par  
 AMINA OYAKHILOME

Designed by/Concept par  
 PETER SCHULZ

Drawn by/Dessiné par  
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Project Manager/Administrateur de Projets  
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Architectural and Engineering Resources Manager/  
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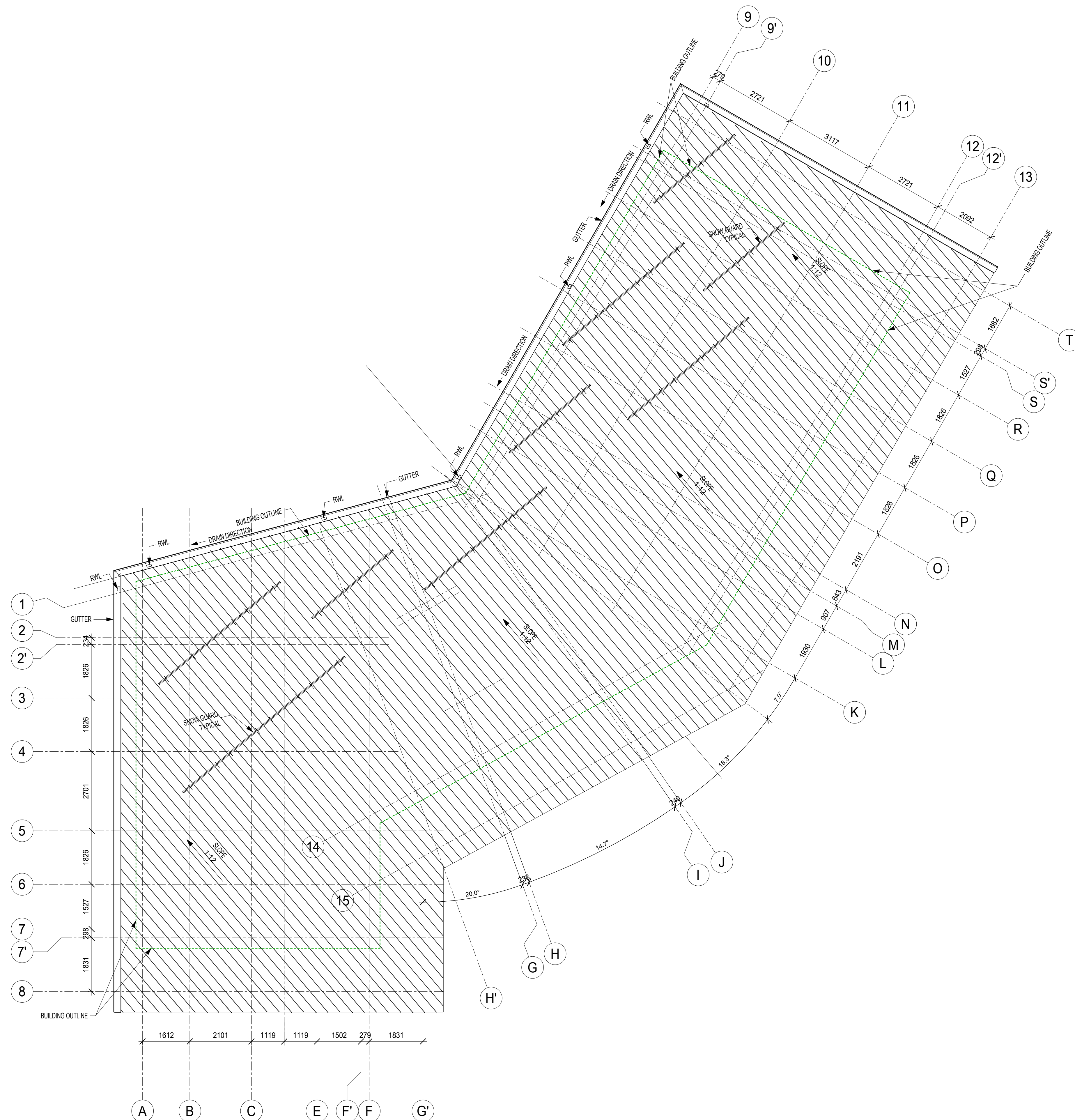
Client / client

**Parks Canada**

Drawing title / Titre du dessin

ROOF PLAN

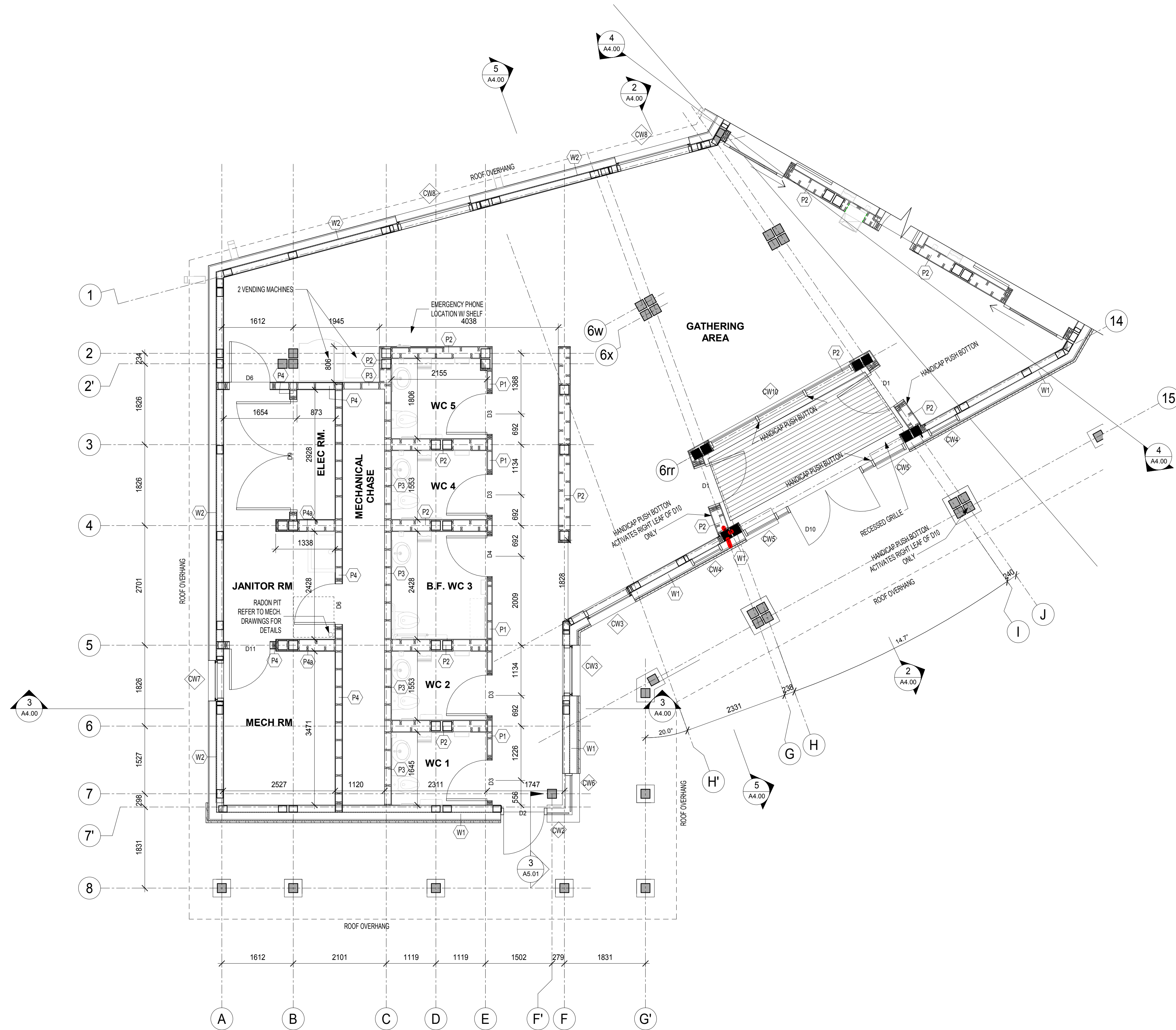
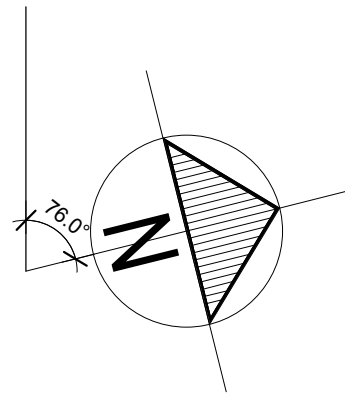
Project No. / No. du projet CAI 752	Sheet / Feuille A2.03	Revision no. / La Révision no. 4
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1 ROOF PLAN  
 SCALE: 1:75







1 ENLARGED PLAN SOUTH WING  
A2.04 SCALE: 1 : 50



Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	08-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
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Client / client  
**Parks Canada**

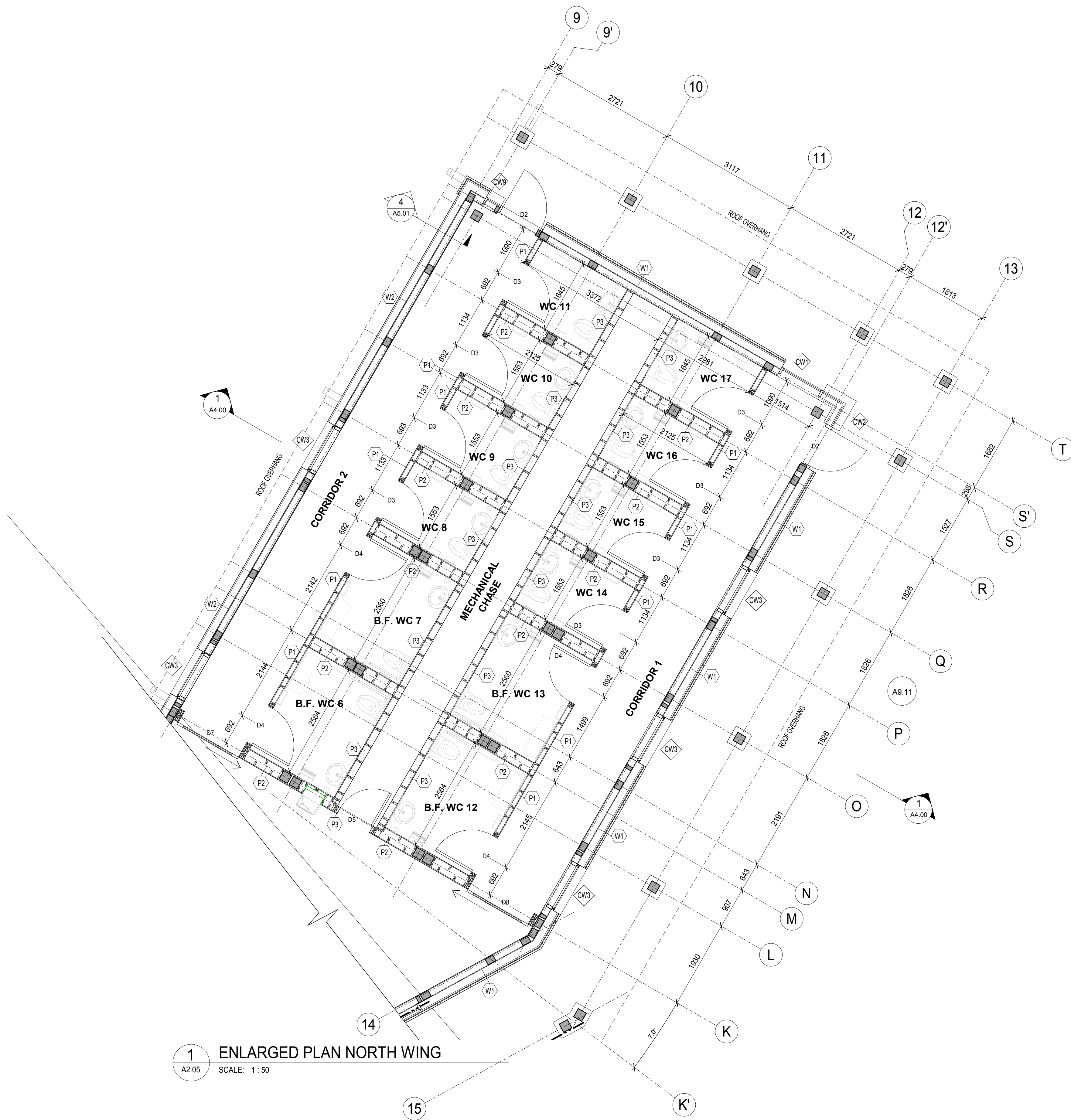
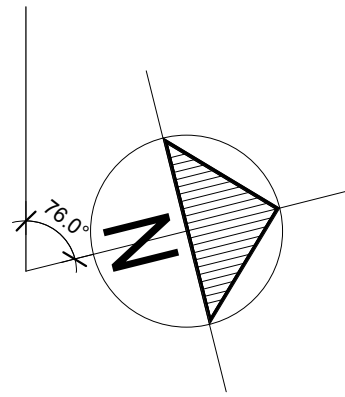
Drawing title / Titre du dessin

ENLARGED PLAN SOUTH WING

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A2.04	4







1 ENLARGED PLAN NORTH WING  
A2.05 SCALE: 1 : 50



Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	08-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

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ANDREW OOSTING

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Ressources Architectural et de Directeur d'ingénierie

Client / client  
**Parks Canada**

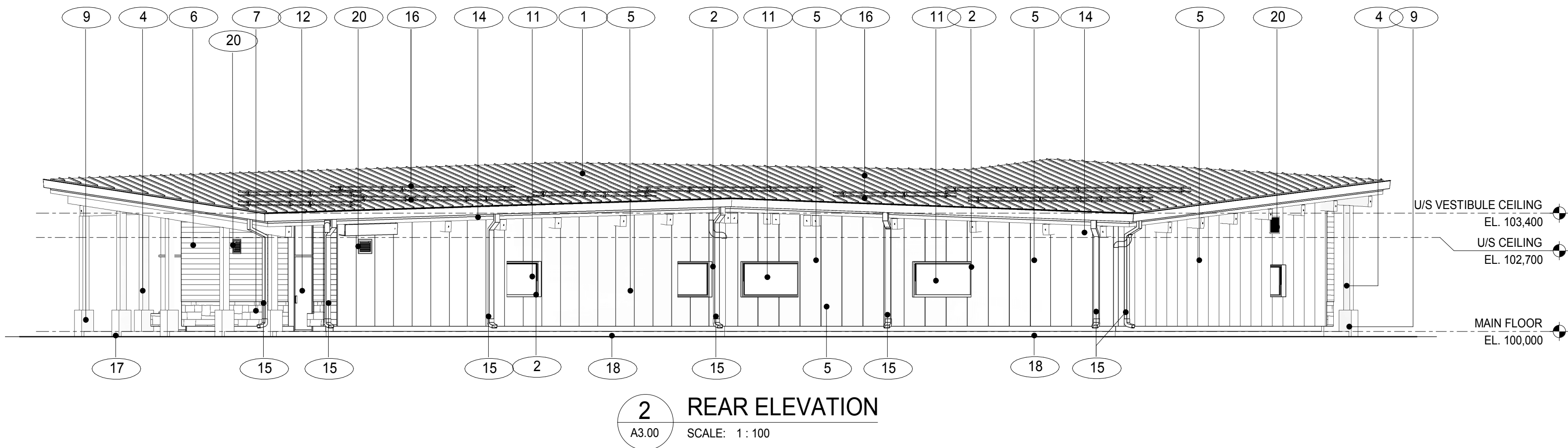
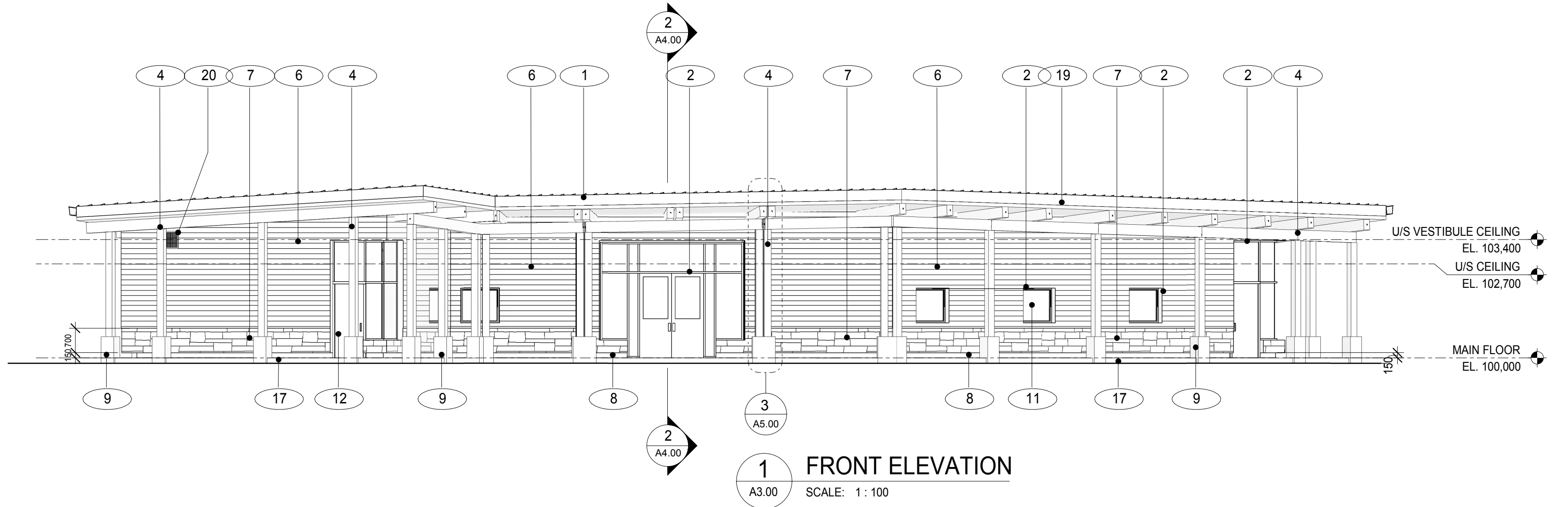
Drawing title / Titre du dessin

ENLARGED PLAN NORTH WING

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A2.05	4







ELEVATION MATERIAL LEGEND			
1	LOW SLOPE STANDING SEAM METAL ROOF - CHARCOAL OR SIMILAR AS APPROVED BY DEPARTMENTAL REPRESENTATIVE	11	GLAZING - DOUBLE GLAZED SEALED UNIT C/W - LOW E-COATING
2	CURTAIN WALL WINDOW	12	HOLLOW METAL INSULATED DOOR - PAINTED
3	EXPOSED TIMBER BEAMS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP	13	ALUMINUM DOOR
4	EXPOSED TIMBER COLUMNS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP	14	ROOF GUTTER - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
5	VERTICAL METAL SIDING - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE	15	DOWN SPOUT - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
6	ROUGH SAWN FIR WOOD CLAP BOARD HORIZONTAL SIDING. RESAWN 1 FACE #2 KNOTTY WESTERN RED CEDAR OR #2 GRADEV4E T&G KILN DRIED 11/16" X 6-3/4" FACE COVERAGE - 10' TO 14' LENGTHS	16	SNOW GUARD. COLOUR - TO MATCH ROOF COLOUR
7	NATURAL STONE - LOCALLY SOURCED / AVAILABLE STONE MATERIAL	17	BRUSHED CONCRETE WALKWAY - LIGHT GREY
8	150mm SANDBLAST EXPOSED CONCRETE CURB	18	LOCALLY SOURCED 4"-6" SIZE ROCK INSTALLED ON FILTER FABRIC TO 100 mm DEPTH
9	610mm SAND BLAST CONCRETE FOOTING	19	CROSS LAMINATED TIMBER WOOD SOFFIT
10	NOT IN USE	20	LOUVER

Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
MARAL SAFARZADEH

Project Manager/Administrateur de Projets  
ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
**Parks Canada**

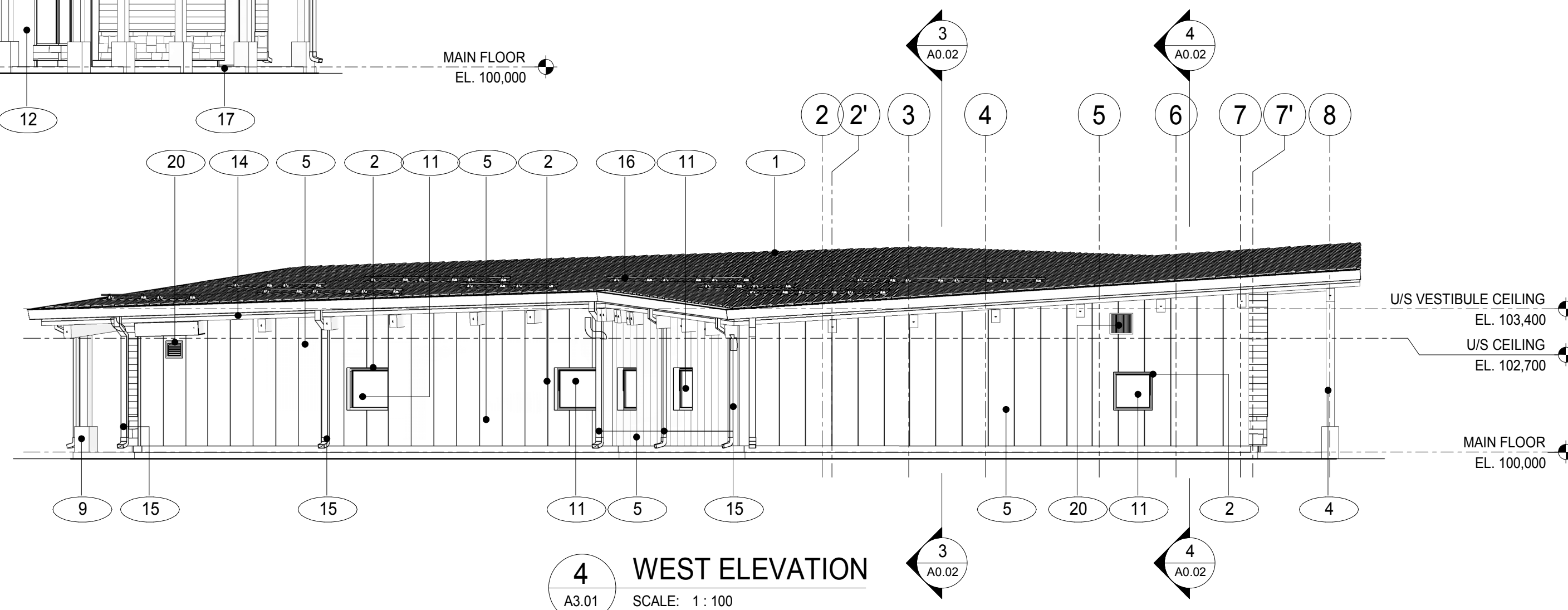
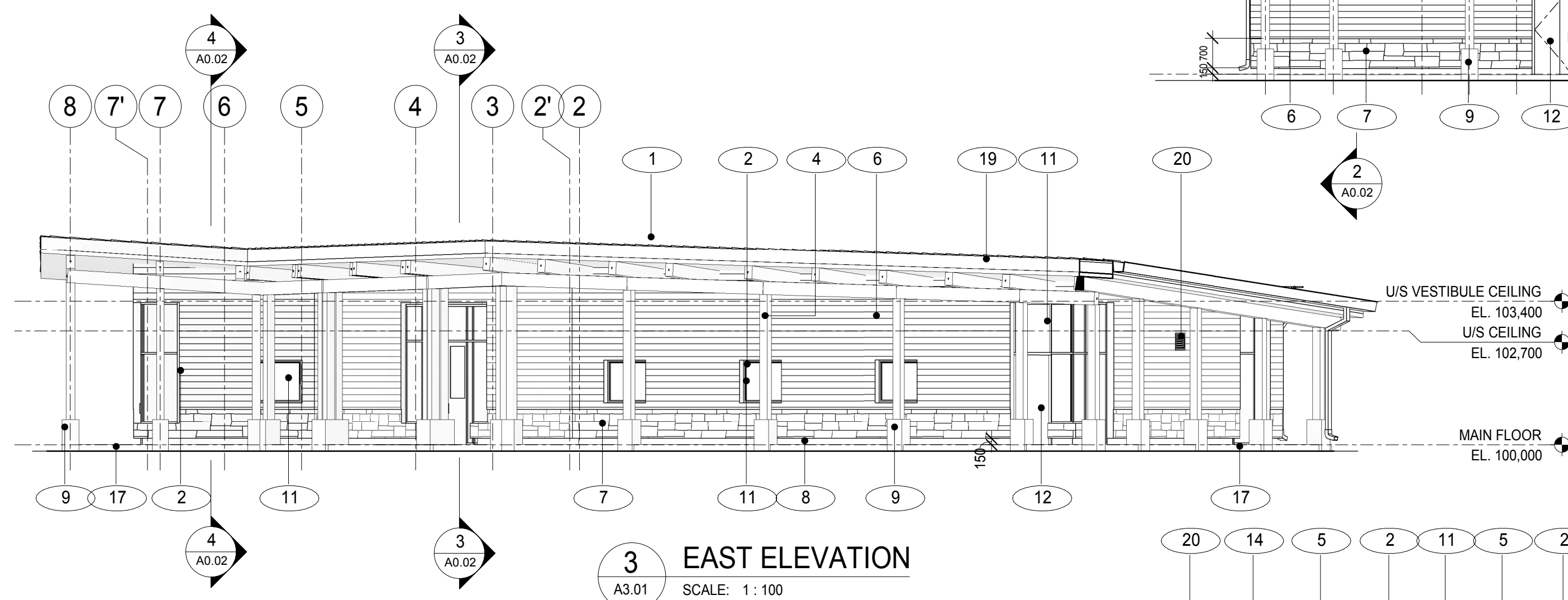
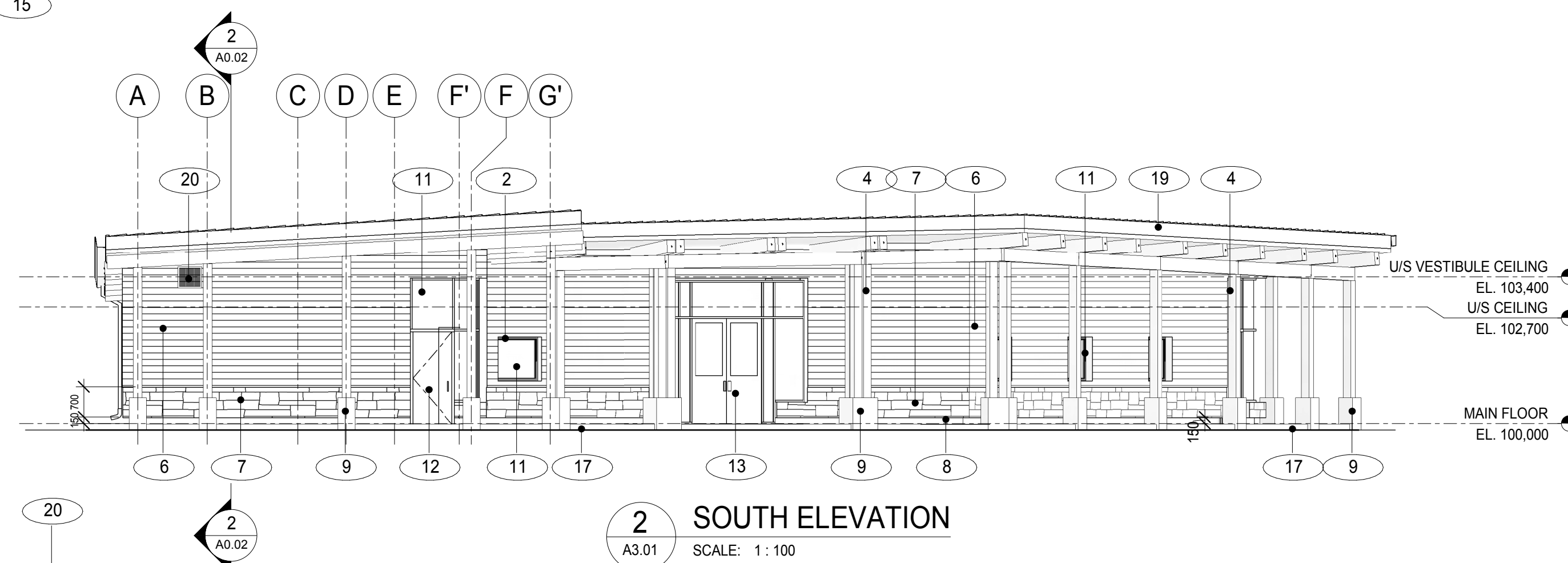
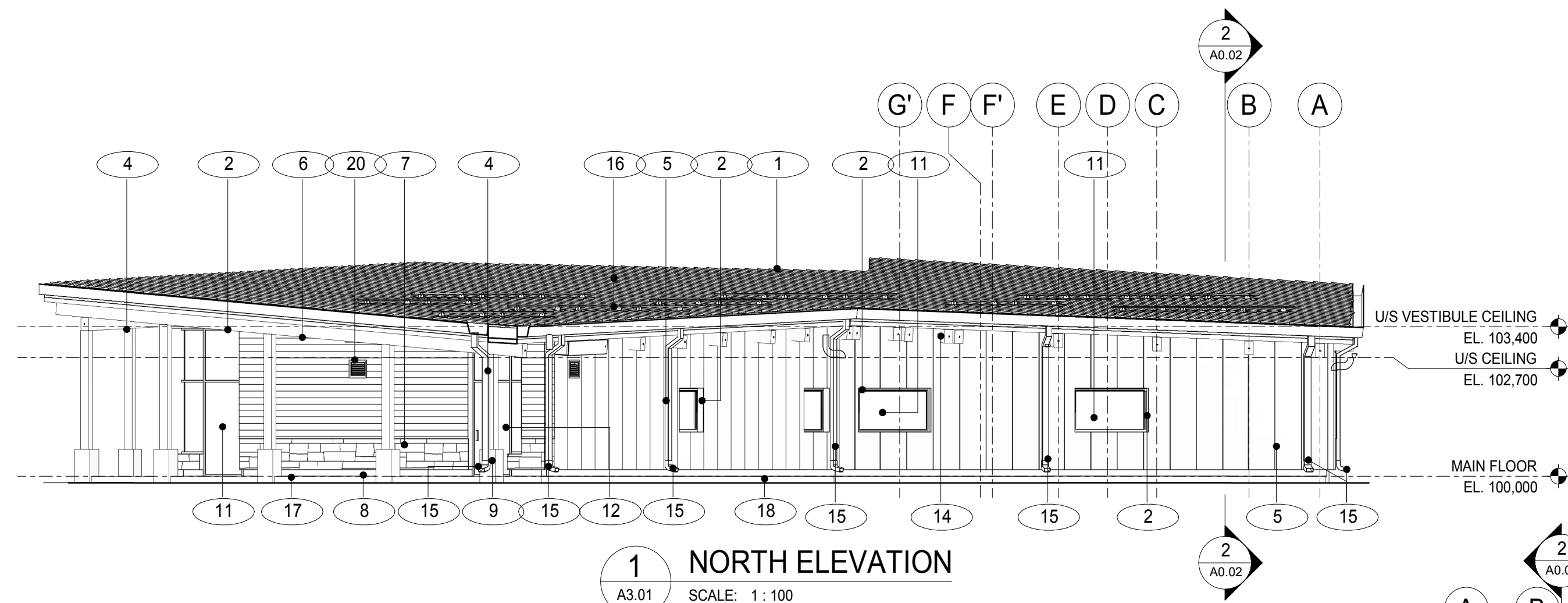
Drawing title / Titre du dessin

EXTERIOR ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille A3.00	Revision no. / La Révision no. 5
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#### ELEVATION MATERIAL LEGEND

1	LOW SLOPE STANDING SEAM METAL ROOF - CHARCOAL OR SIMILAR AS APPROVED BY DEPARTMENTAL REPRESENTATIVE	11	GLAZING - DOUBLE GLAZED SEALED UNIT C/W - LOW E-COATING
2	CURTAIN WALL WINDOW	12	HOLLOW METAL INSULATED DOOR - PAINTED
3	EXPOSED TIMBER BEAMS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP	13	ALUMINUM DOOR
4	EXPOSED TIMBER COLUMNS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP	14	ROOF GUTTER - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
5	VERTICAL METAL SIDING - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE	15	DOWN SPOUT- COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
6	ROUGH SAWN FIR WOOD CLAP BOARD HORIZONTAL SIDING. RESAWN 1 FACE #2 KNOTTY WESTERN RED CEDAR OR #2 GRADEV4E T&G KILN DRIED 11/16" X 6-3/4" FACE COVERAGE - 10' TO 14' LENGTHS	16	SNOW GUARD. COLOUR - TO MATCH ROOF COLOUR
7	NATURAL STONE - LOCALLY SOURCED / AVAILABLE STONE MATERIAL	17	BRUSHED CONCRETE WALKWAY - LIGHT GREY
8	150mm SANDBLAST EXPOSED CONCRETE CURB	18	LOCALLY SOURCED 4"-6" SIZE ROCK INSTALLED ON FILTER FABRIC TO 100 mm DEPTH
9	610mm SAND BLAST CONCRETE FOOTING	19	CROSS LAMINATED TIMBER WOOD SOFFIT
10	NOT IN USE	20	LOUVER

Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	08-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



 Parks Canada  
Parcs Canada

Project title/Titre du projet

#### ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par  
AMINA OYAKHILOME

Designed by/Concept par  
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Drawn by/Dessiné par  
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Client / client

Parks Canada

Drawing title / Titre du dessin

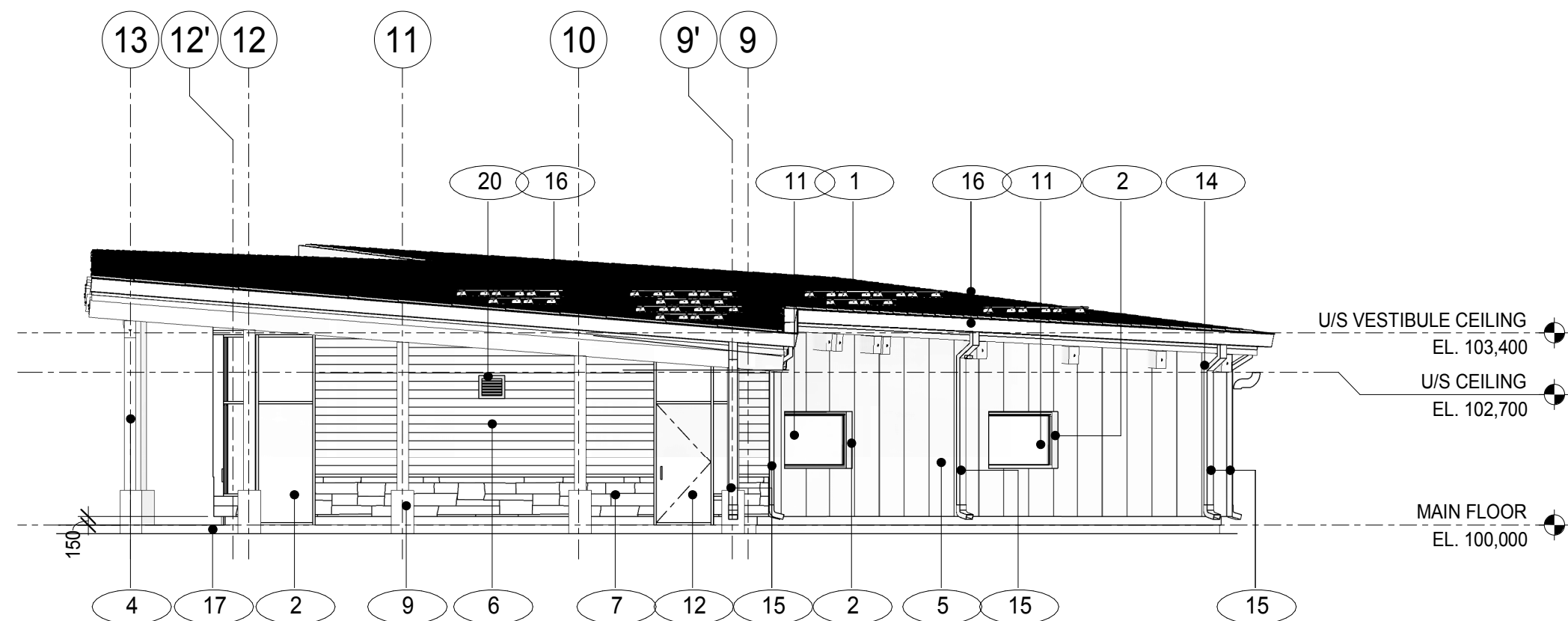
EXTERIOR ELEVATIONS

Project No. / No. du  
projet  
CAI 752

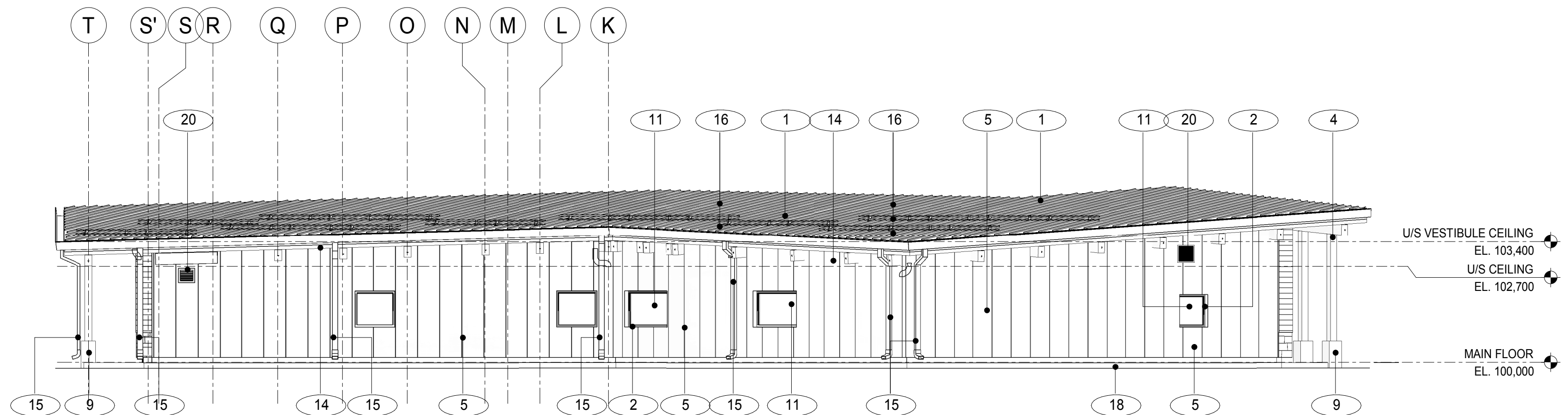
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Revision no. /  
La Révision  
no.  
4

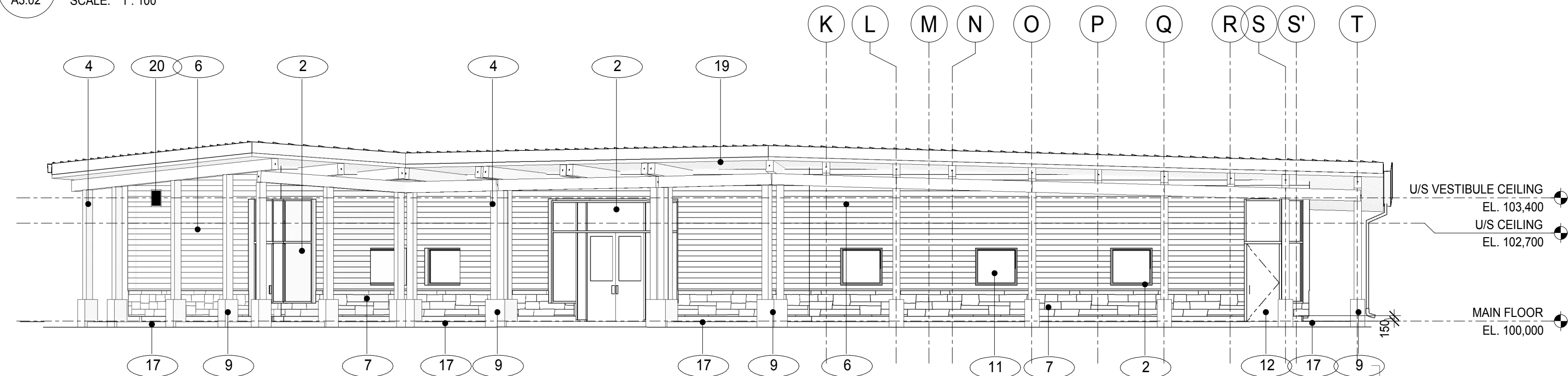




**1 NORTHEAST ELEVATION**  
A3.02 SCALE: 1 : 100



**2 NORTHWEST ELEVATION**  
A3.02 SCALE: 1 : 100



**3 SOUTHEAST ELEVATION**  
A3.02 SCALE: 1 : 100

#### ELEVATION MATERIAL LEGEND

1	LOW SLOPE STANDING SEAM METAL ROOF - CHARCOAL OR SIMILAR AS APPROVED BY DEPARTMENTAL REPRESENTATIVE	11	GLAZING - DOUBLE GLAZED SEALED UNIT C/W - LOW E-COATING
2	CURTAIN WALL WINDOW	12	HOLLOW METAL INSULATED DOOR - PAINTED
3	EXPOSED TIMBER BEAMS (AS PER STRUCTURAL)	13	ALUMINUM DOOR
4	EXPOSED TIMBER COLUMNS (AS PER STRUCTURAL)	14	ROOF GUTTER - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
5	VERTICAL METAL SIDING - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE	15	DOWN SPOUT - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
6	ROUGH SAWN FIR WOOD CLAP BOARD HORIZONTAL SIDING. RESAWN 1 FACE #2 KNOTTY WESTERN RED CEDAR OR #2 GRADEV4E T&G KILN DRIED 11/16" X 6-3/4" FACE COVERAGE - 10' TO 14' LENGTHS	16	SNOW GUARD. COLOUR - TO MATCH ROOF COLOUR
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8	150mm SANDBLAST EXPOSED CONCRETE CURB	18	LOCALLY SOURCED 4"-6" SIZE ROCK INSTALLED ON FILTER FABRIC TO 100 mm DEPTH
9	610mm SAND BLAST CONCRETE FOOTING	19	CROSS LAMINATED TIMBER WOOD SOFFIT
10	NOT IN USE	20	LOUVER

Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
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1	ISSUED FOR 60%	05-31-18

Client / client



 Parks Canada  
Parcs Canada

Project title/Titre du projet

#### ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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PETER SCHULZ

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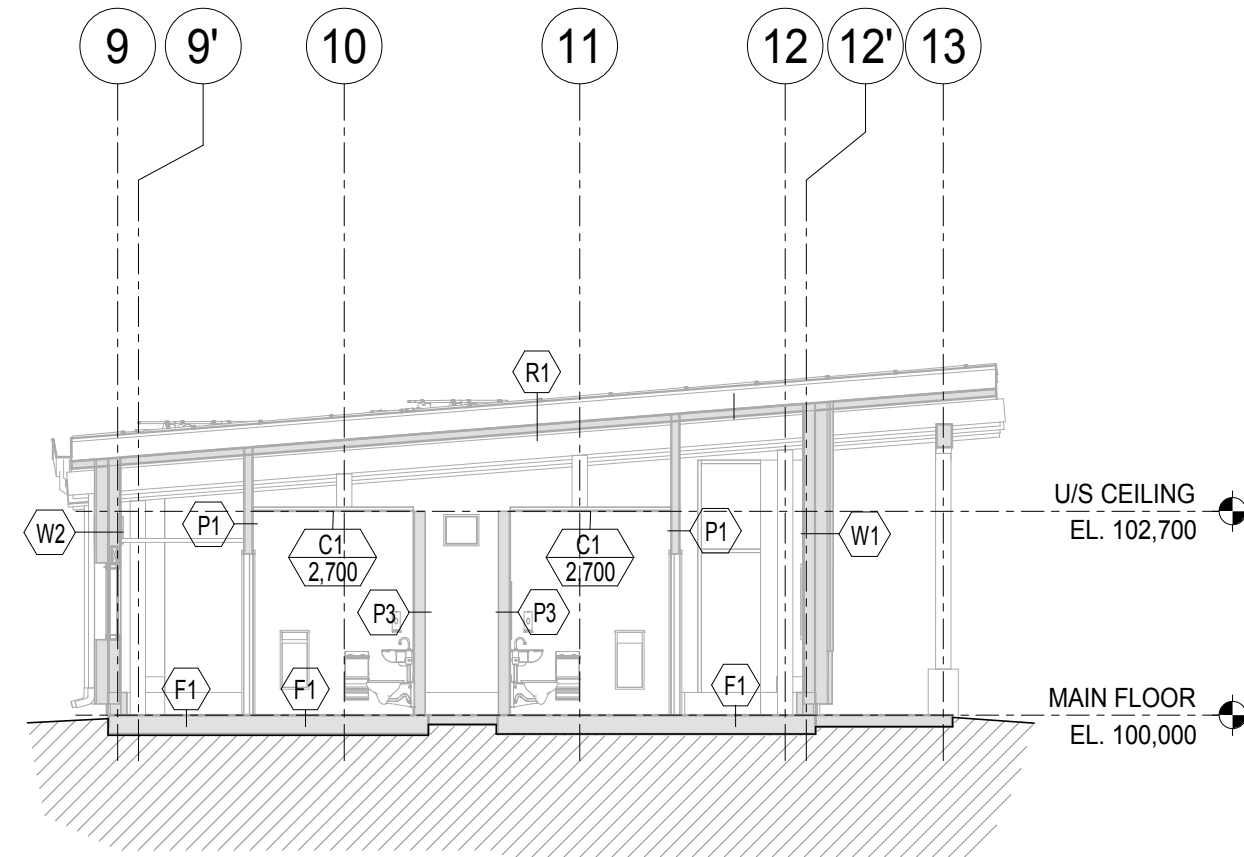
Client / client  
Parks Canada

Drawing title / Titre du dessin

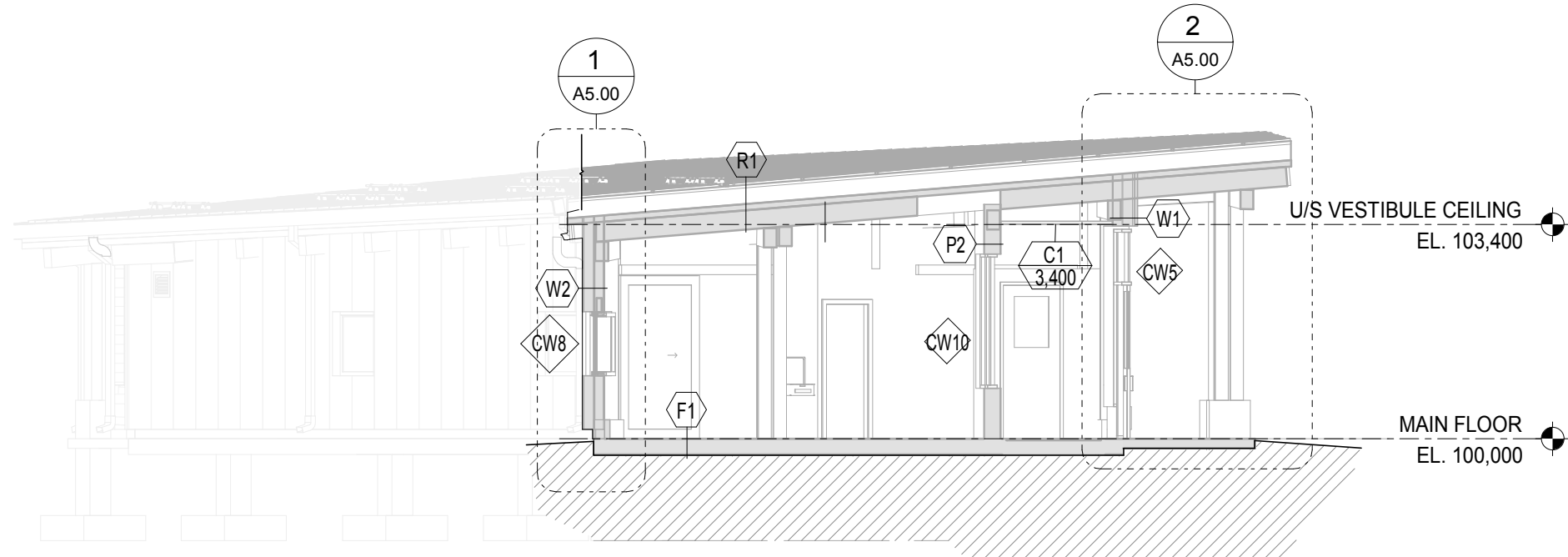
EXTERIOR ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille A3.02	Revision no. / La Révision no. 4
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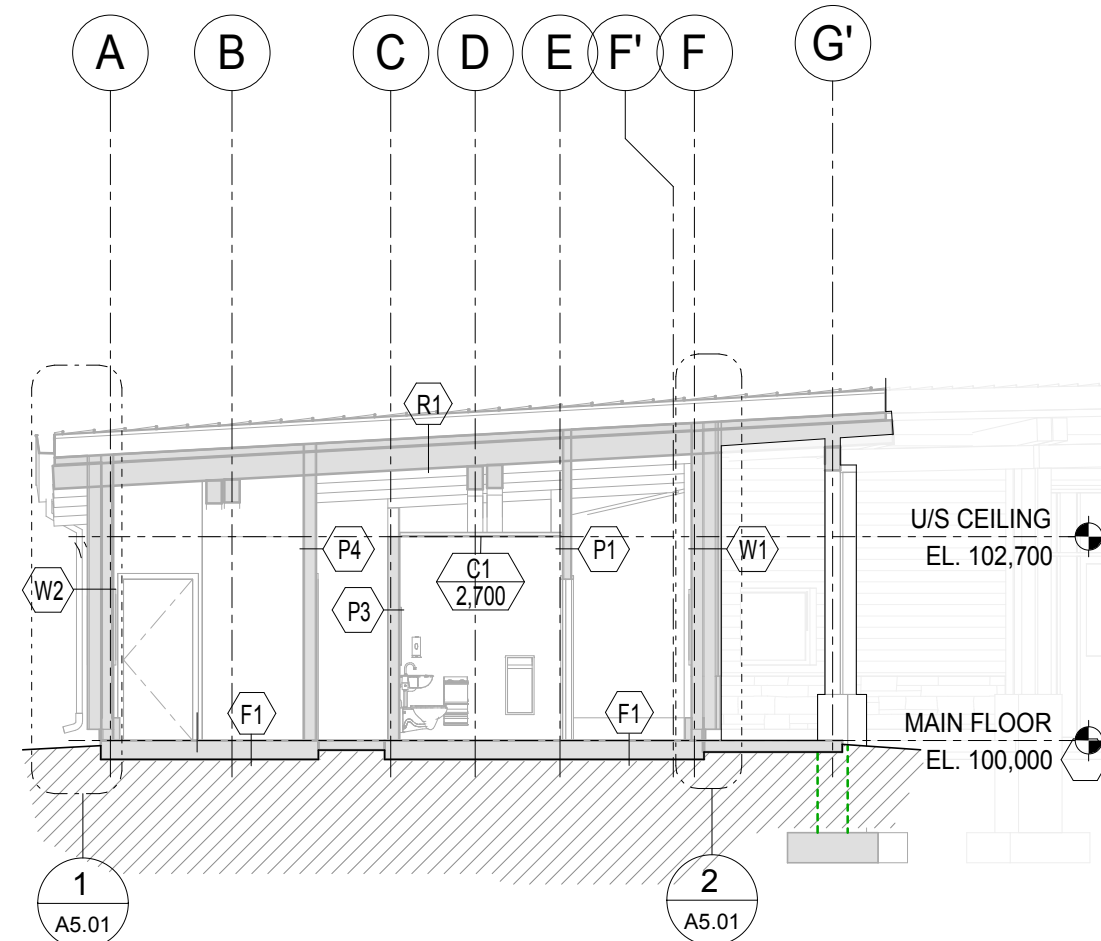




**1 BUILDING CROSS SECTION 1**  
A4.00 SCALE: 1 : 100



**2 BUILDING CROSS SECTION 2**  
A4.00 SCALE: 1 : 100



**3 BUILDING CROSS SECTION 3**  
A4.00 SCALE: 1 : 100

NOTE:  
TOP OF BEAM ELEVATIONS AND u/s OF ROOF VARIES AND NOT INDICATED ON  
BUILDING SECTION, REFER TO STRUCTURAL FOR ELEVATION POINTS.



**4 BUILDING CROSS SECTION 4**  
A4.00 SCALE: 1 : 100



**5 BUILDING CROSS SECTION 5**  
A4.00 SCALE: 1 : 100



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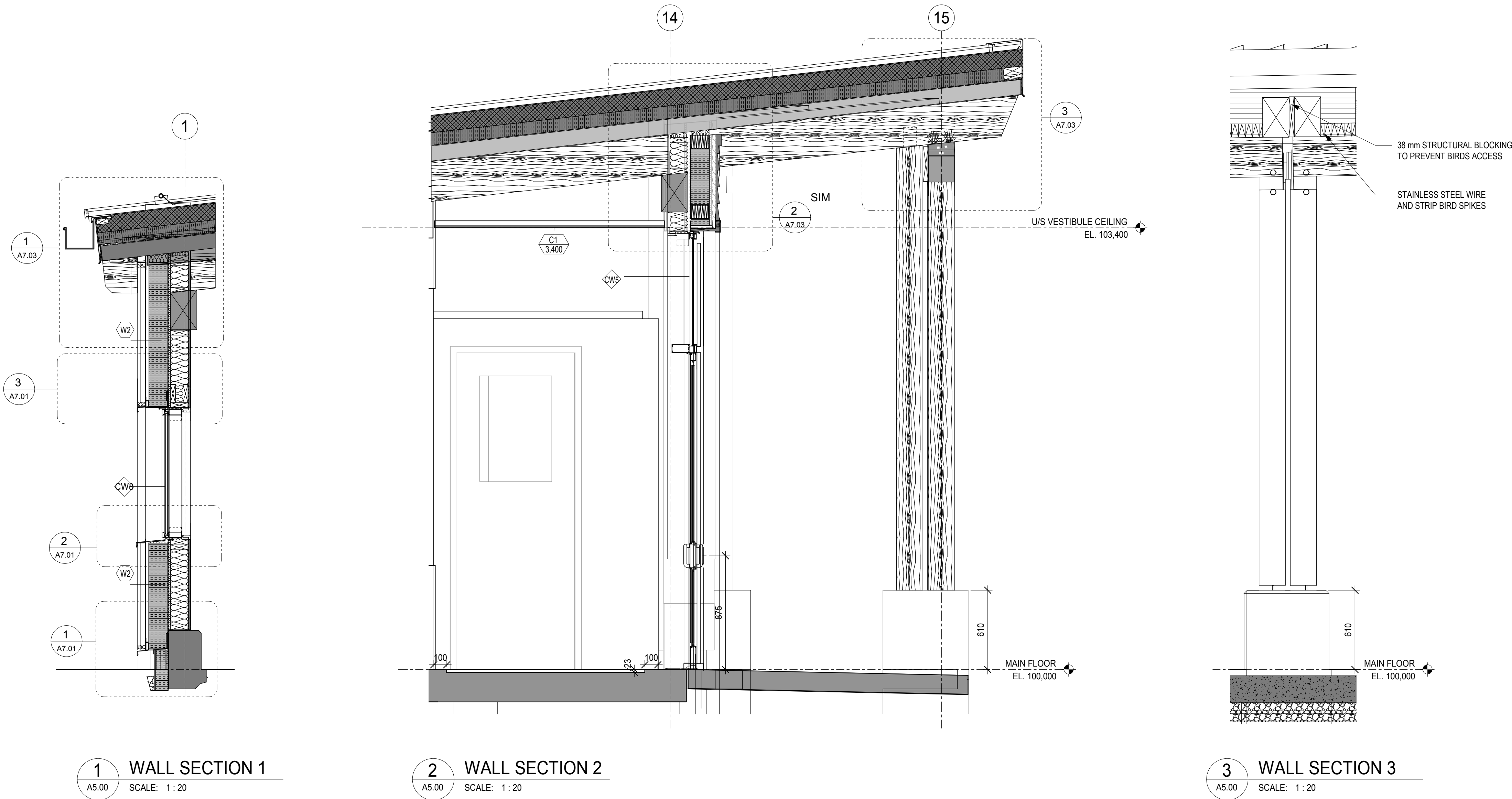
Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
**Parks Canada**

Drawing title / Titre du dessin

BUILDING SECTIONS





Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
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1	ISSUED FOR 60%	05-31-18

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Parcs Canada

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**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
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PETER SCHULZ

Drawn by/Dessiné par  
MARAL SAFARZADEH

Project Manager/Administrateur de Projets  
ANDREW OOSTING

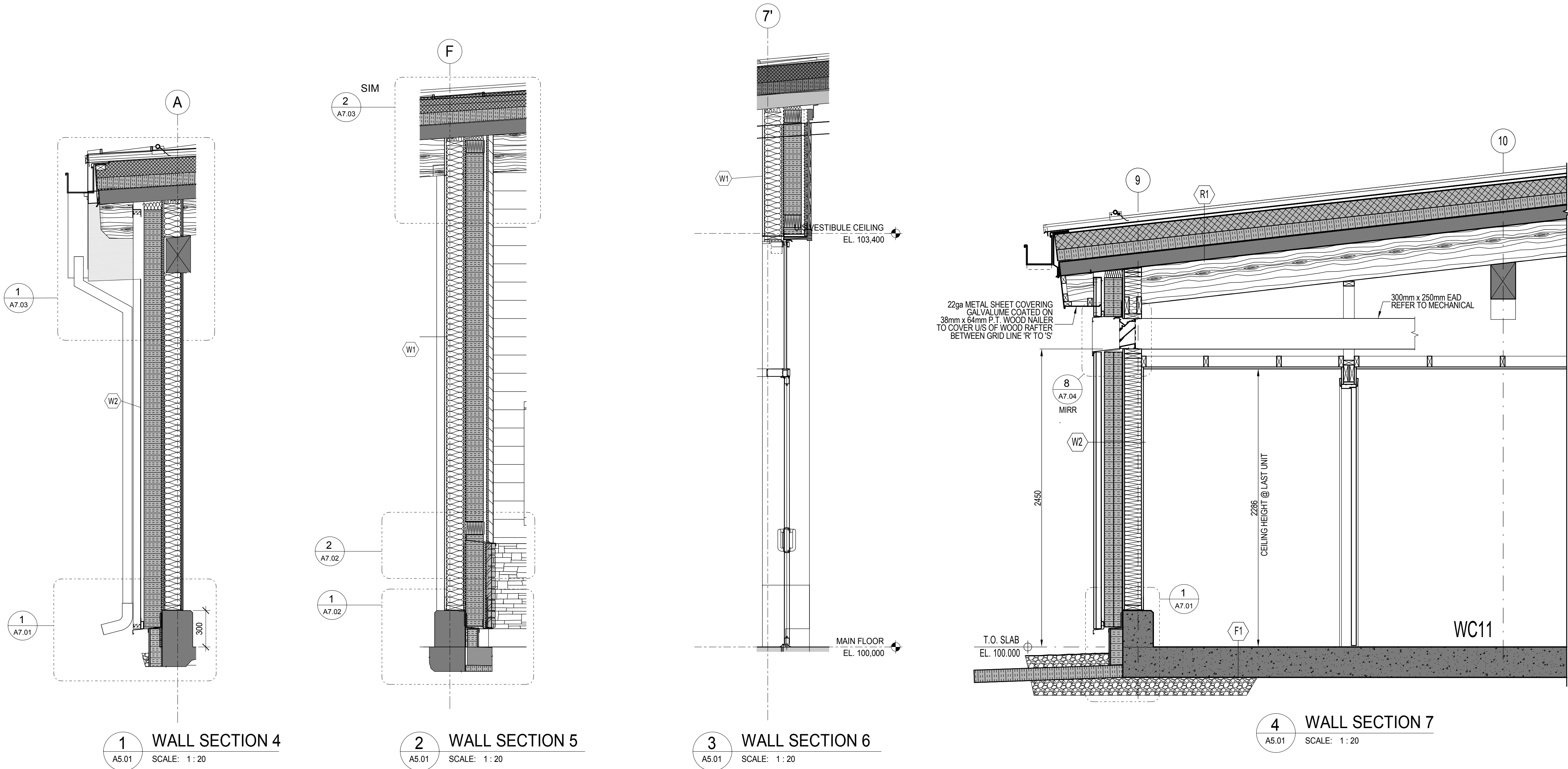
Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
**Parks Canada**

Drawing title / Titre du dessin

Project No. / No. du projet CAI 752	Sheet / Feuille A5.00	Revision no. / La Révision no. 4
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Revision / Révision	Description / Description	Date / Date
2	ISSUED FOR TENDER	12-14-18
1	ISSUED FOR 99%	10-26-18

Client / client	
-----------------	--



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
AMINA OYAKHLOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
MARAL SAFARZADEH

Project Manager/Administrateur de Projets  
ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
**Parks Canada**

Drawing title / Titre du dessin

WALL SECTIONS

Project No. / No. du  
project  
CAI 752

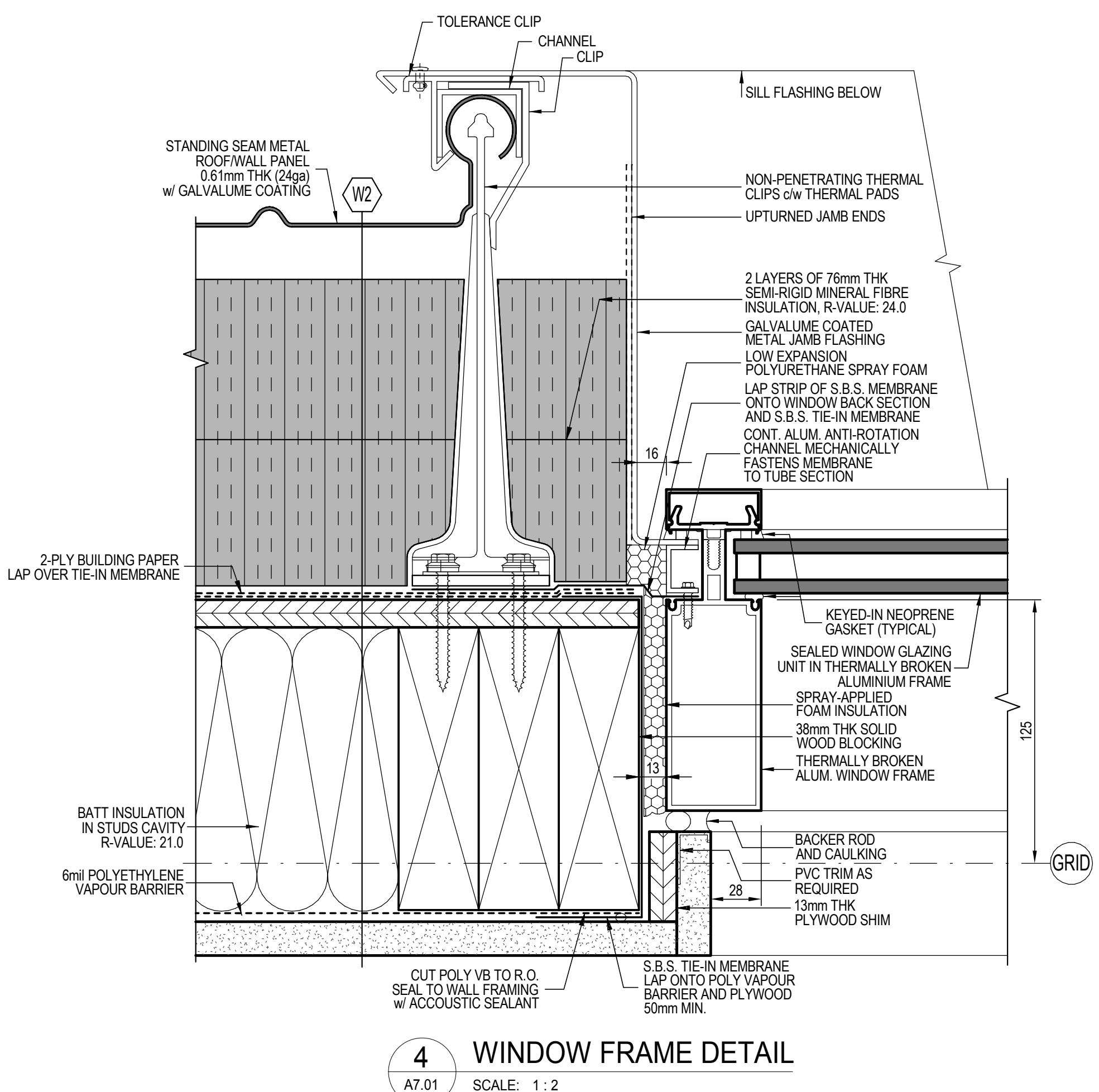
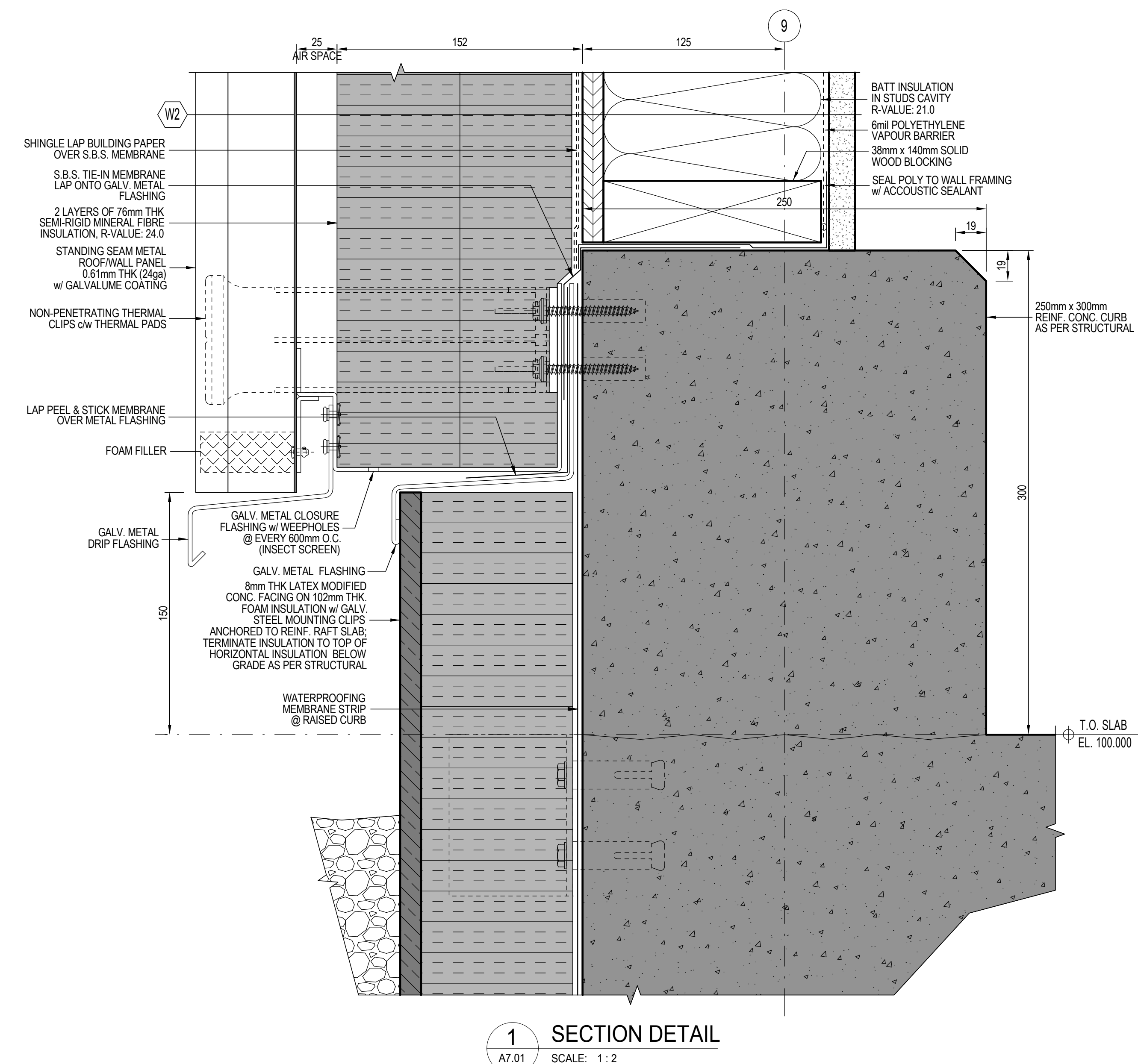
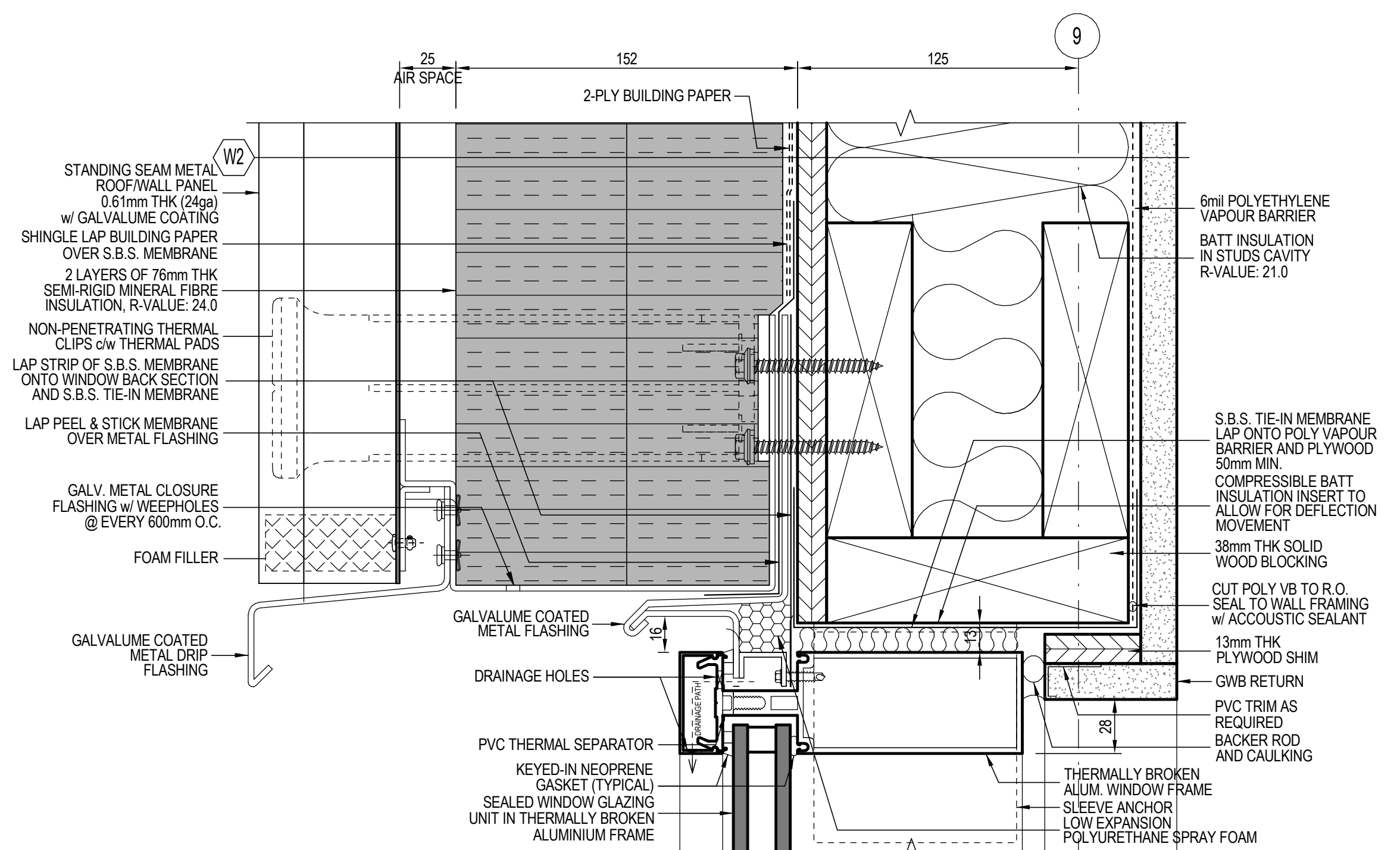
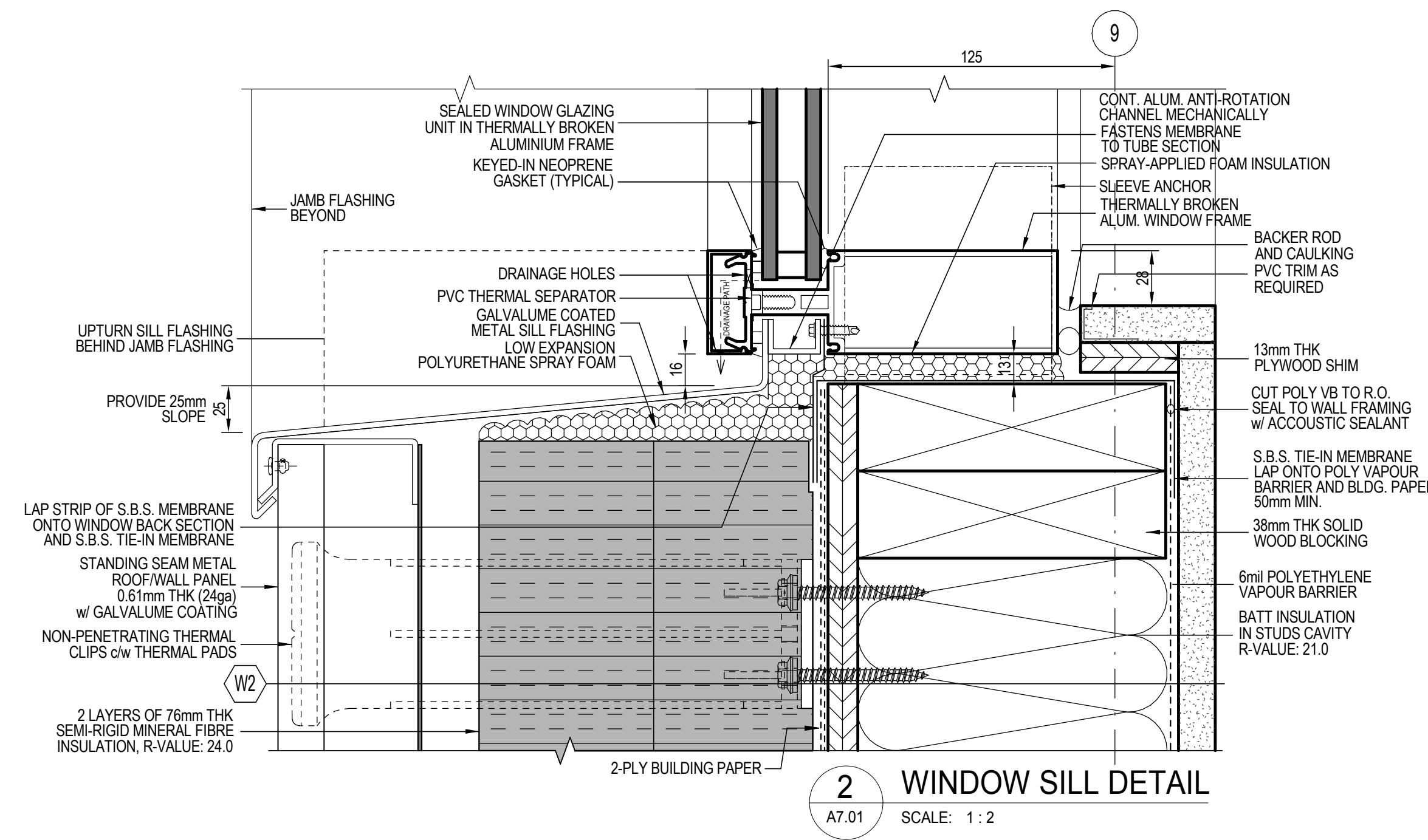
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A5.01

Revision no. /  
La Révision  
no.  
2









Revision /	Description / Description	Date / Date
3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 90%	10-26-18
1	ISSUED FOR 90%	08-20-18

Client / client



Project title/Titre du projet

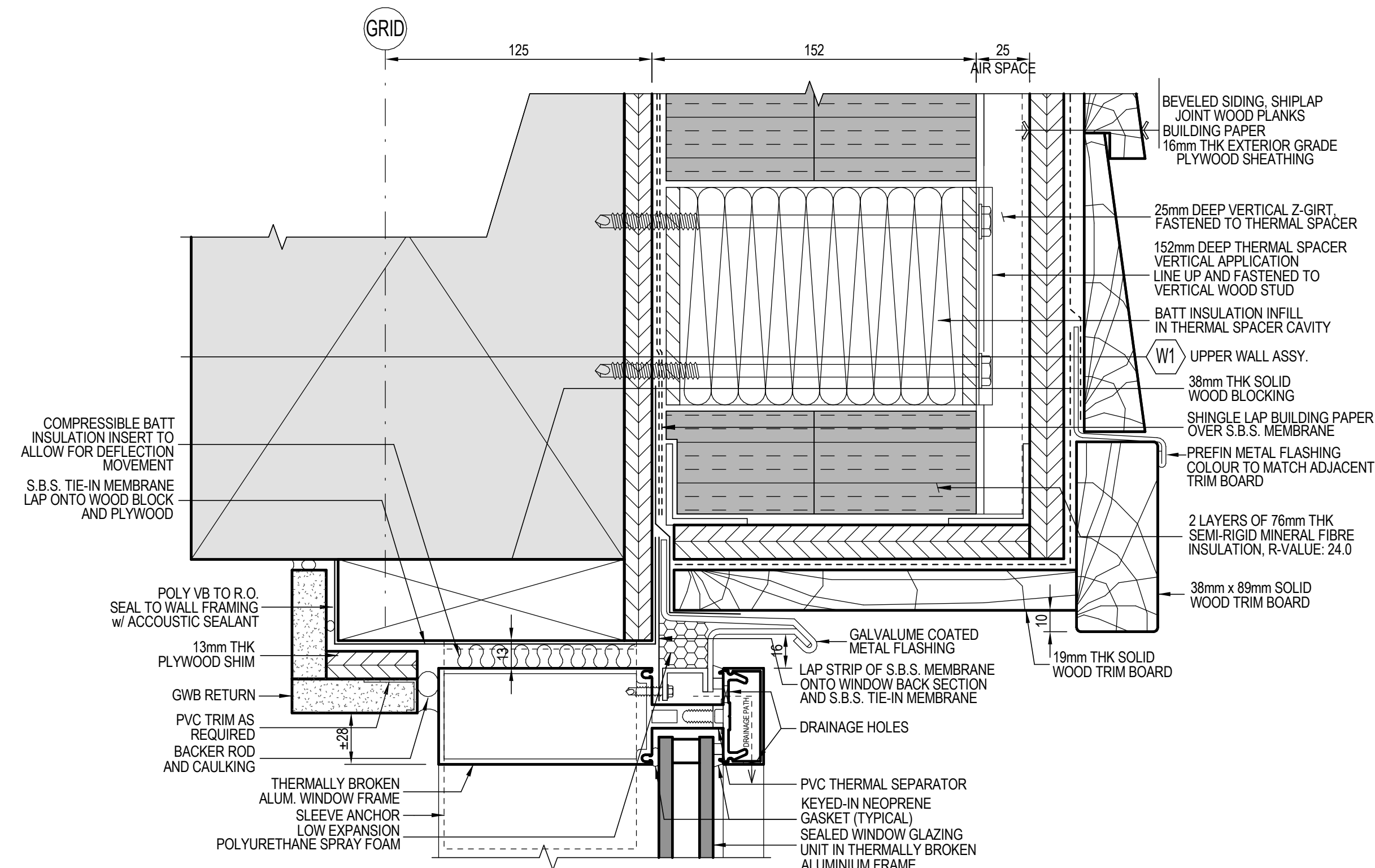
**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
AMINA OYAKHILOME  
Designed by/Concept par  
PETER SCHULZ  
Drawn by/Dessiné par  
PID DAYAWON  
Project Manager/Administrateur de Projets  
ANDREW OOSTING  
Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie  
Client / client  
**Parks Canada**  
Drawing title / Titre du dessin

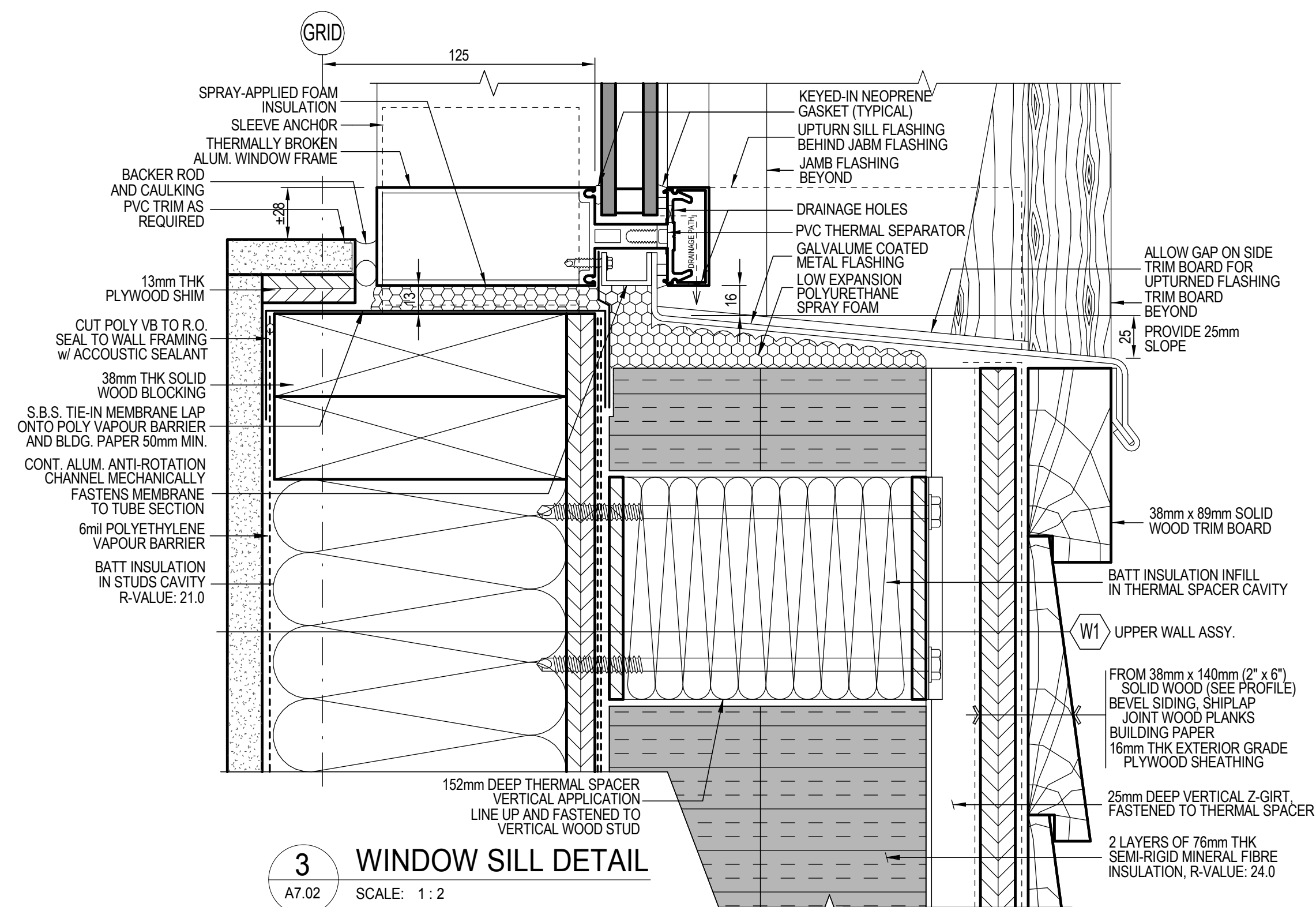
DETAILS

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.01	3

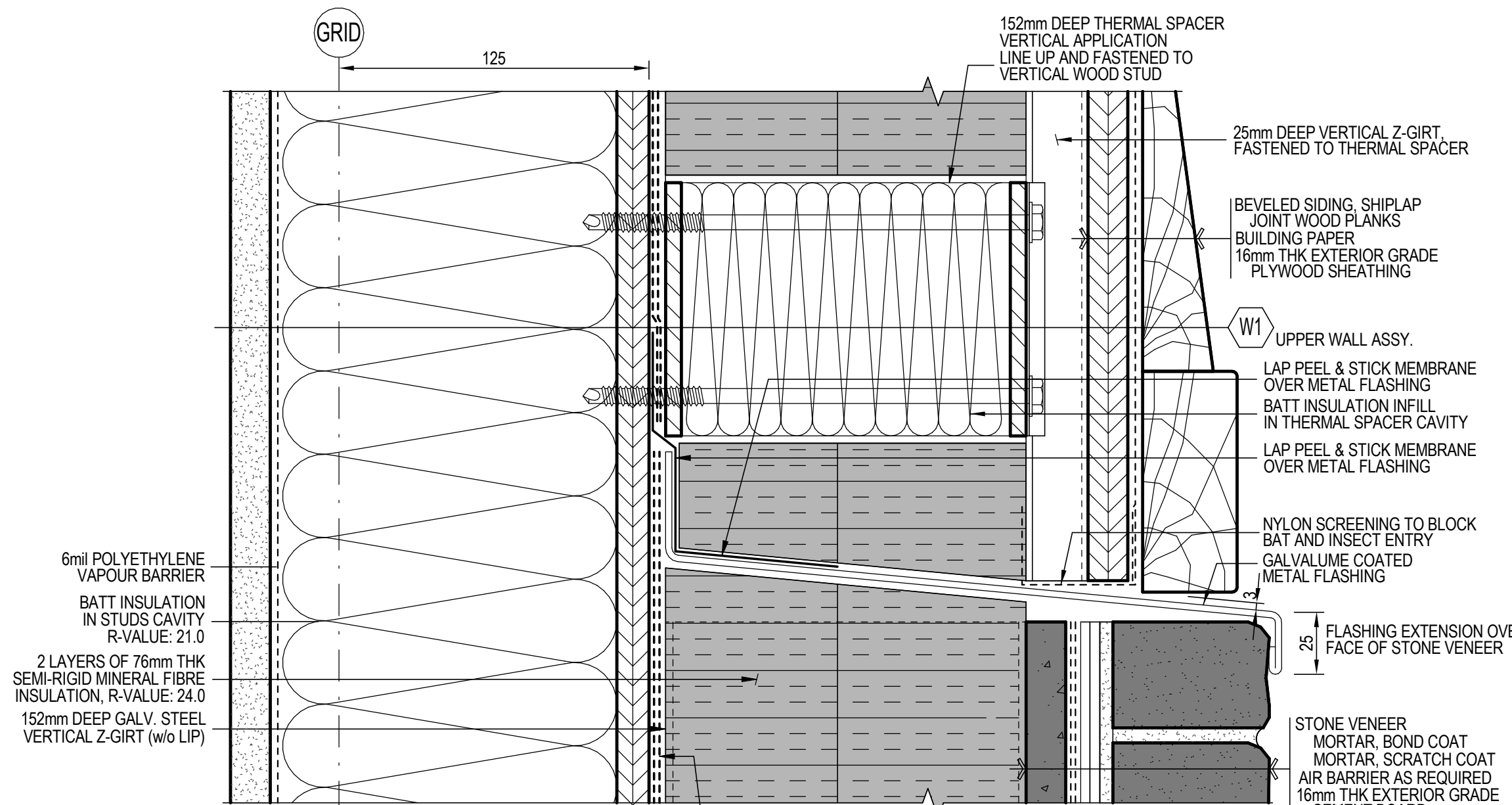




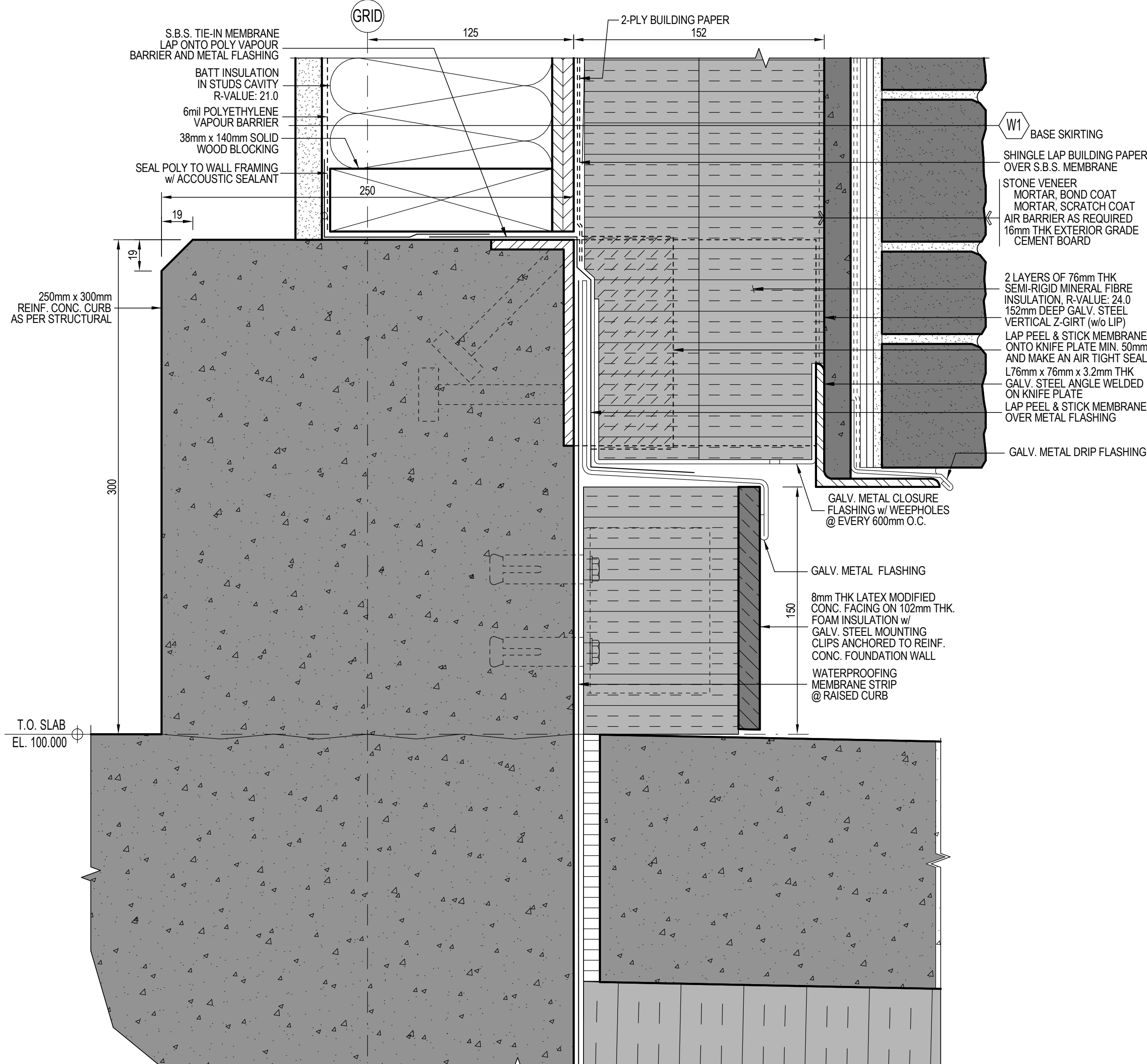
4 WINDOW HEAD DETAIL  
 A7.02 SCALE: 1 : 2



3 WINDOW SILL DETAIL  
 A7.02 SCALE: 1 : 2

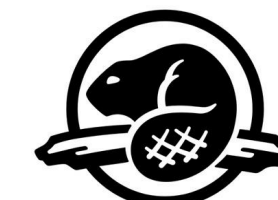


2 SECTION DETAIL  
 A7.02 SCALE: 1 : 2



1 SECTION DETAIL  
 A7.02 SCALE: 1 : 2

Revision /	Description / Description	Date / Date
3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 90%	10-26-18
1	ISSUED FOR 90%	08-20-18



Project title/Titre du projet  
**ROGERS PASS WASHROOM  
 FACILITY AND DAY USE  
 AREA**

Approved by/Approuvé par AMINA OYAKHILOME	Designed by/Concept par PETER SCHULZ	Drawn by/Dessiné par PID DAYAYON
Project Manager/Administrateur de Projets ANDREW OOSTING	Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie	Client / client Parks Canada
Drawing title / Titre du dessin		

DETAILS

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.02	3

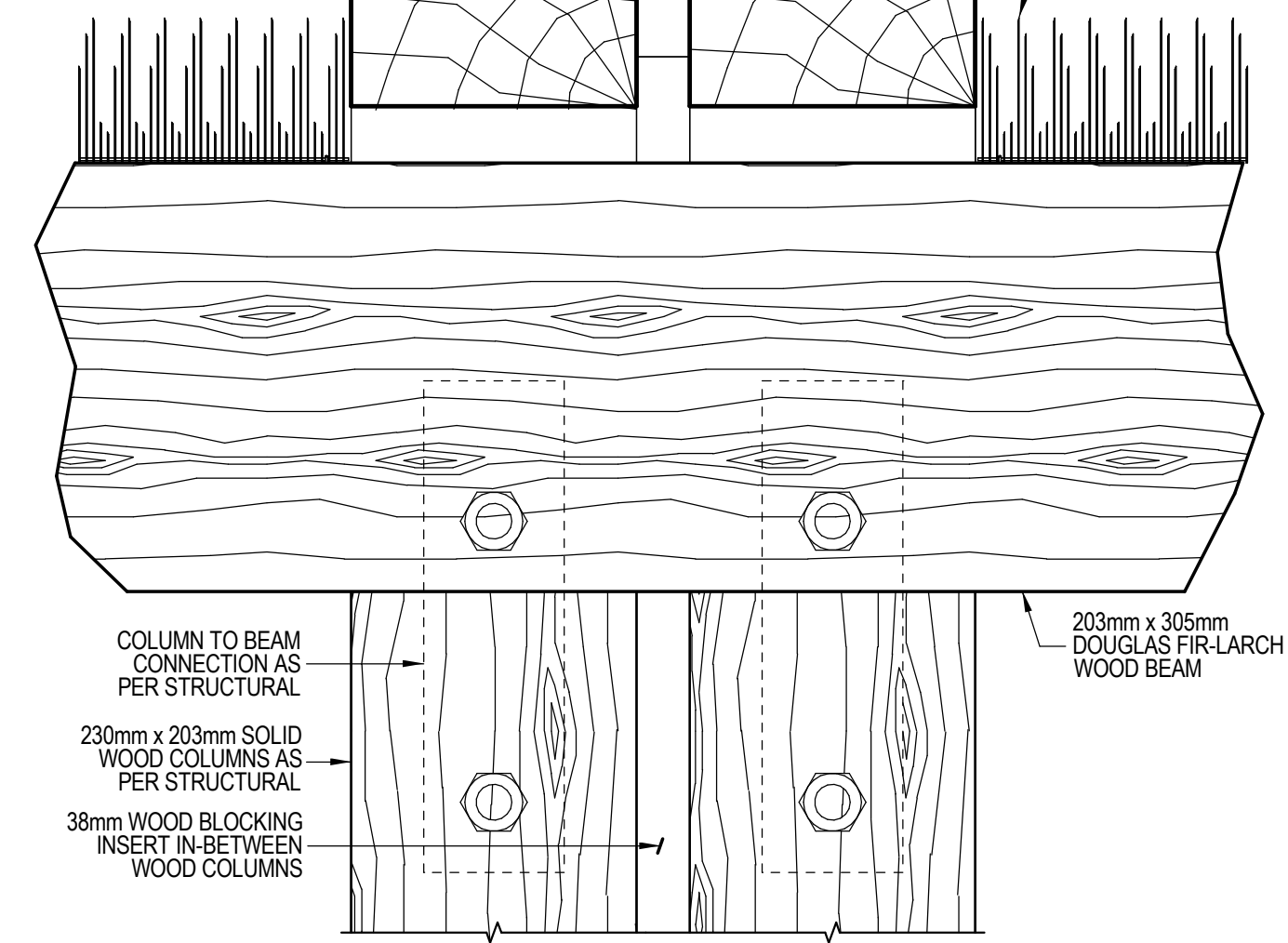




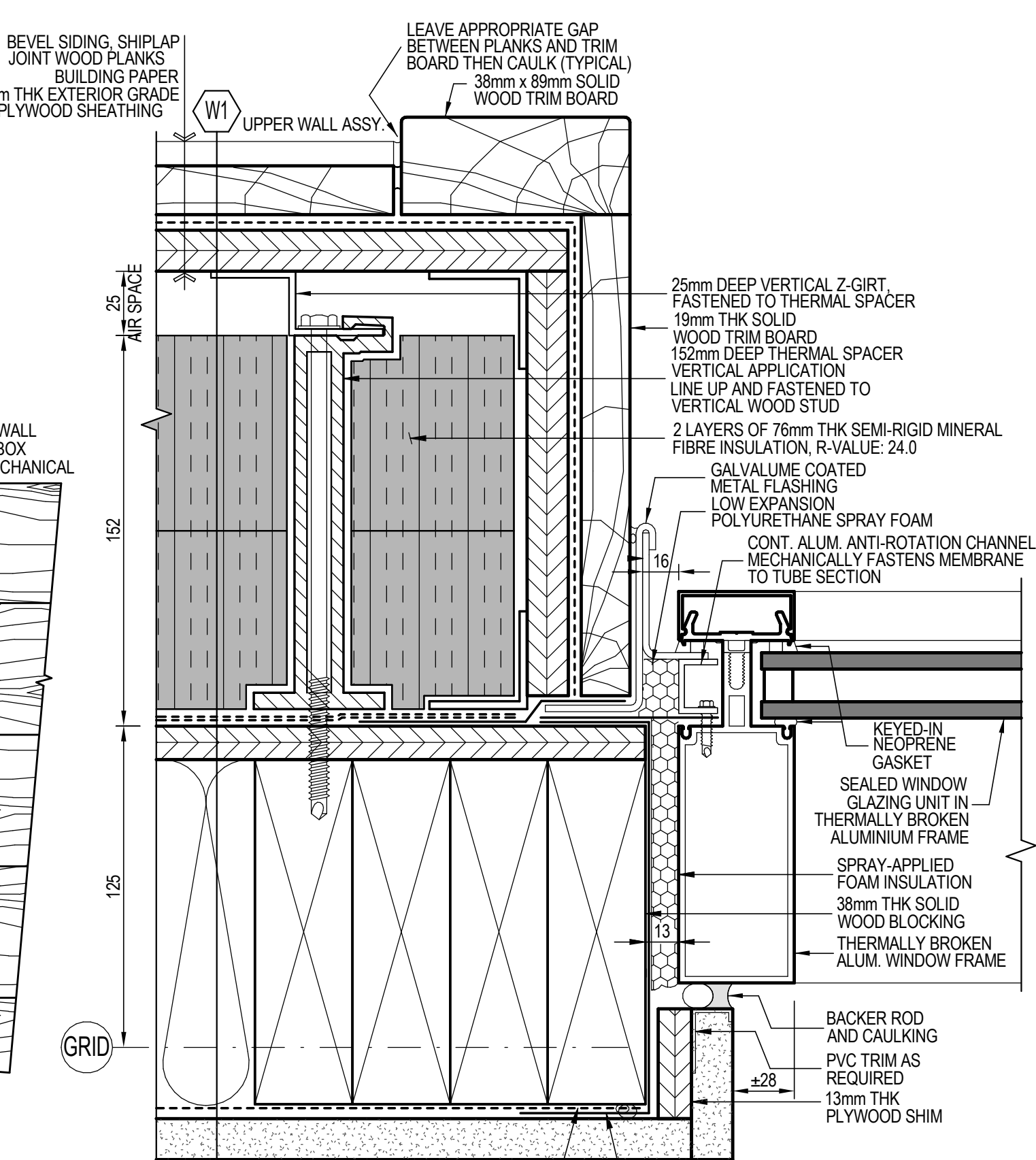




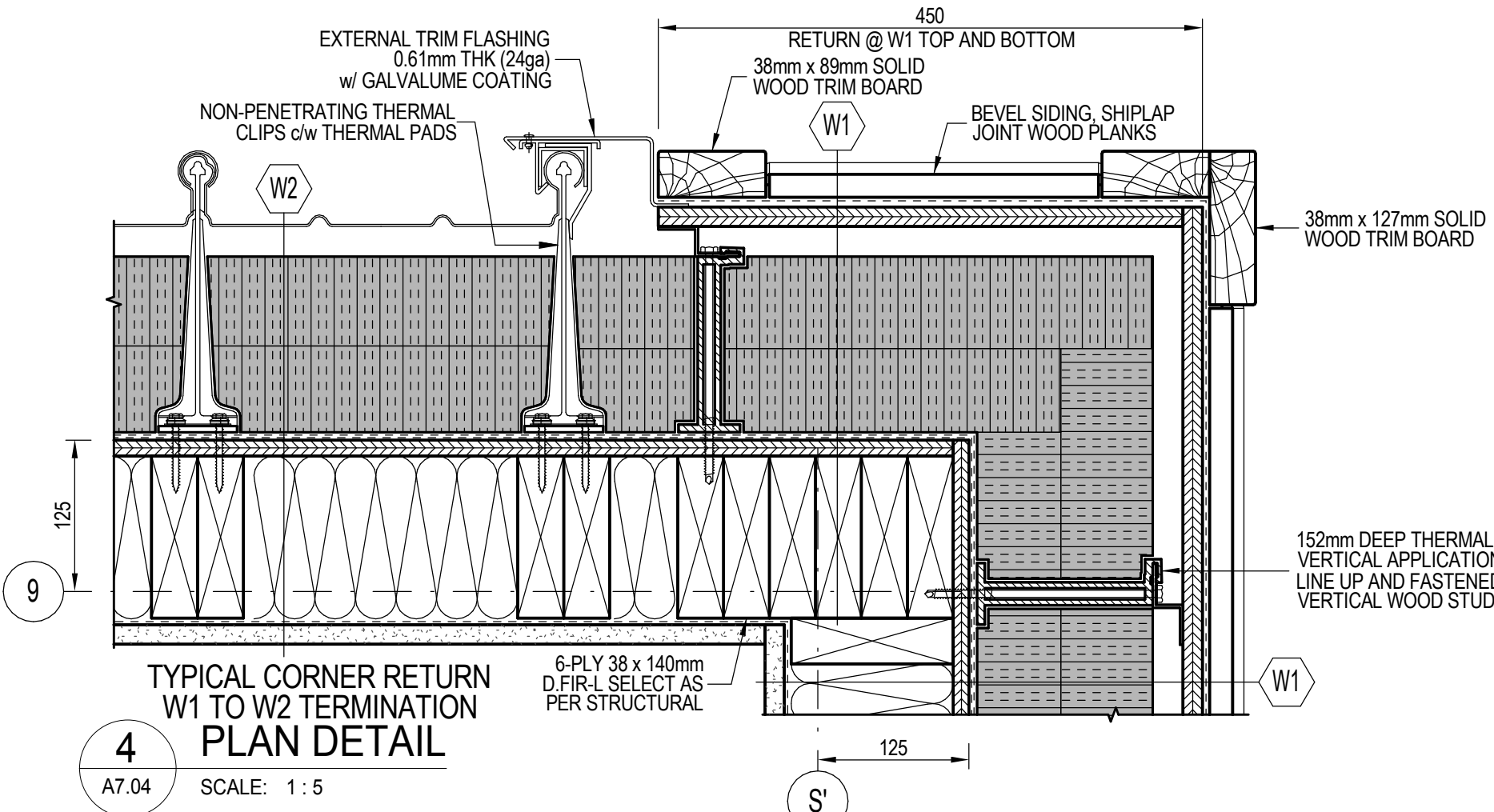
RIDGE FLASHING  
 (24ga) 0.61mm THK  
 w/ GALVALUME COATING  
 38mm THK WOOD BLOCKING  
 INSERT IN-BETWEEN  
 WOOD RAFTERS  
 203mm x 305mm SOLID  
 WOOD RAFTERS  
 STAINLESS STEEL WIRE  
 AND STRIP BIRD SPIKES



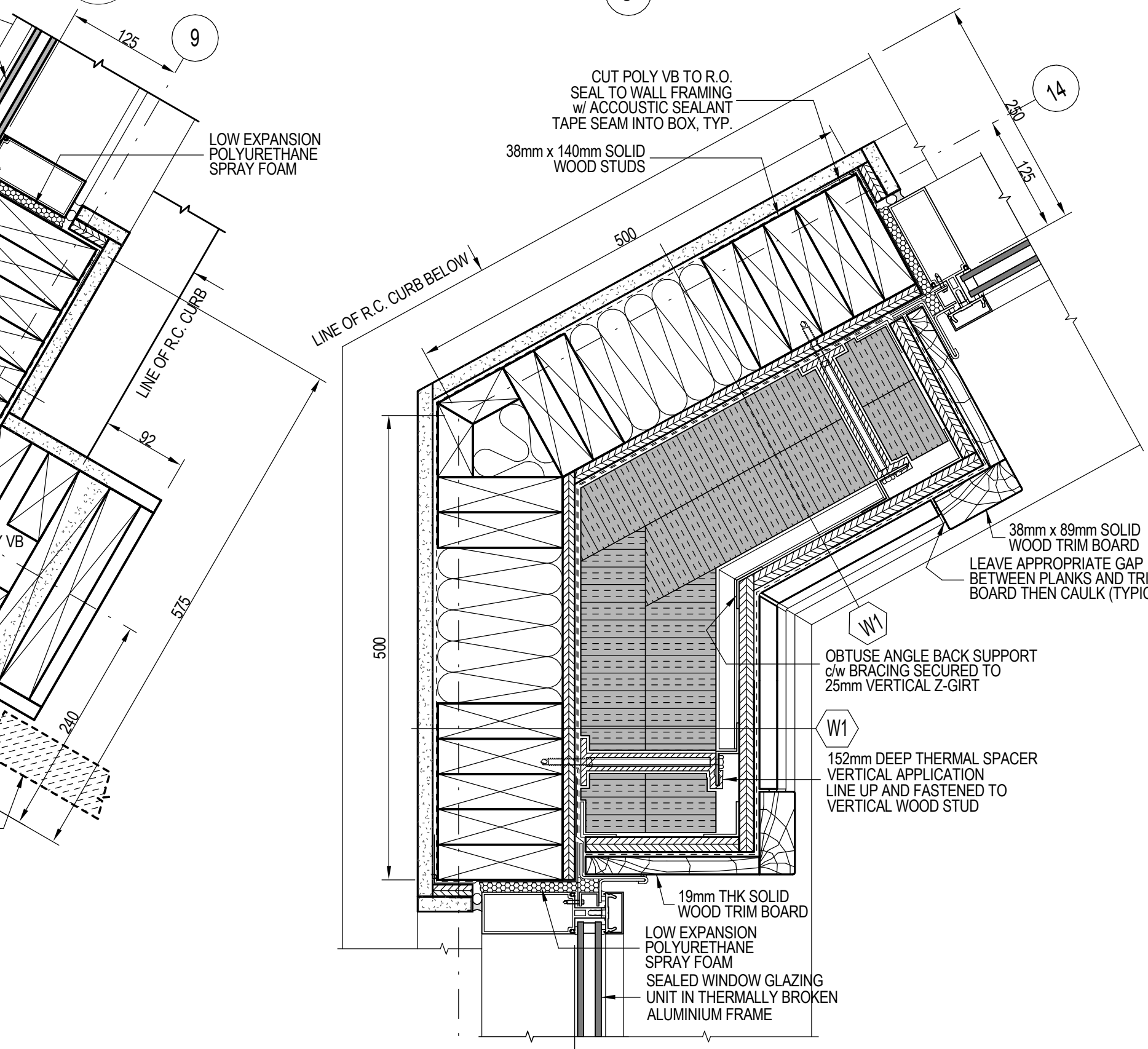
2 PARTIAL ELEVATION  
 SECTION DETAIL  
 A7.04 SCALE: 1:5



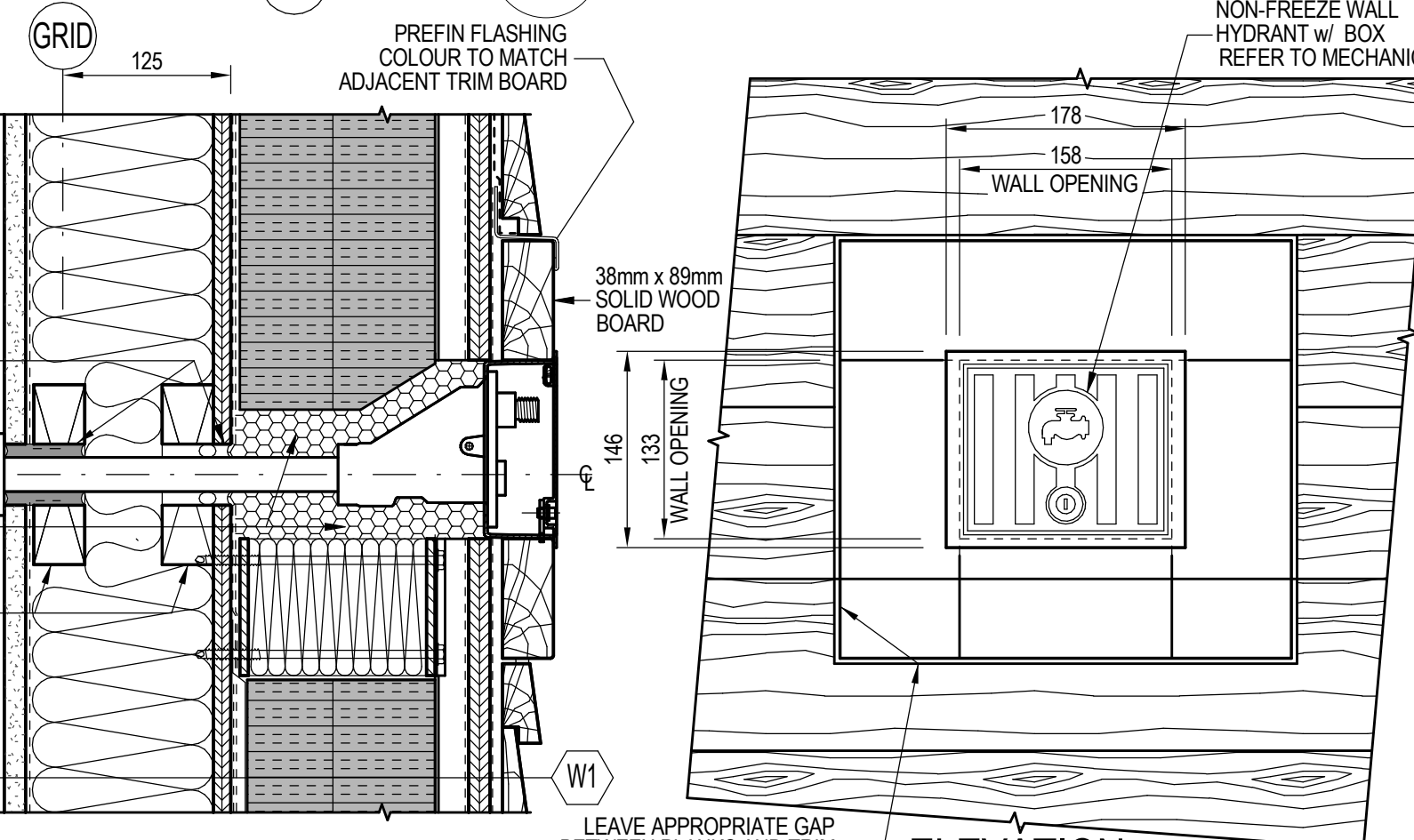
1 PLAN DETAIL  
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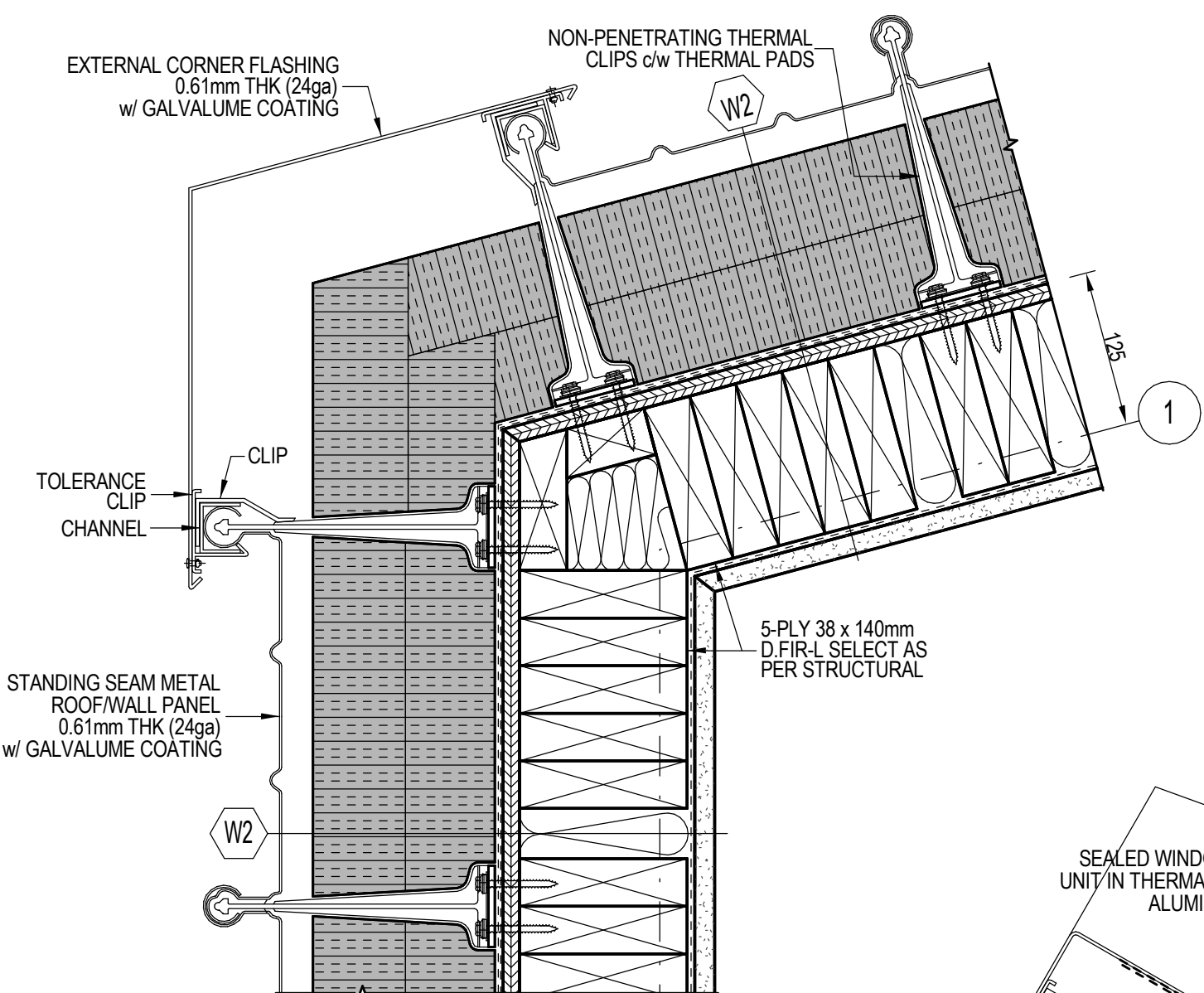
4 TYPICAL CORNER RETURN  
 W1 TO W2 TERMINATION  
 PLAN DETAIL  
 A7.04 SCALE: 1:5



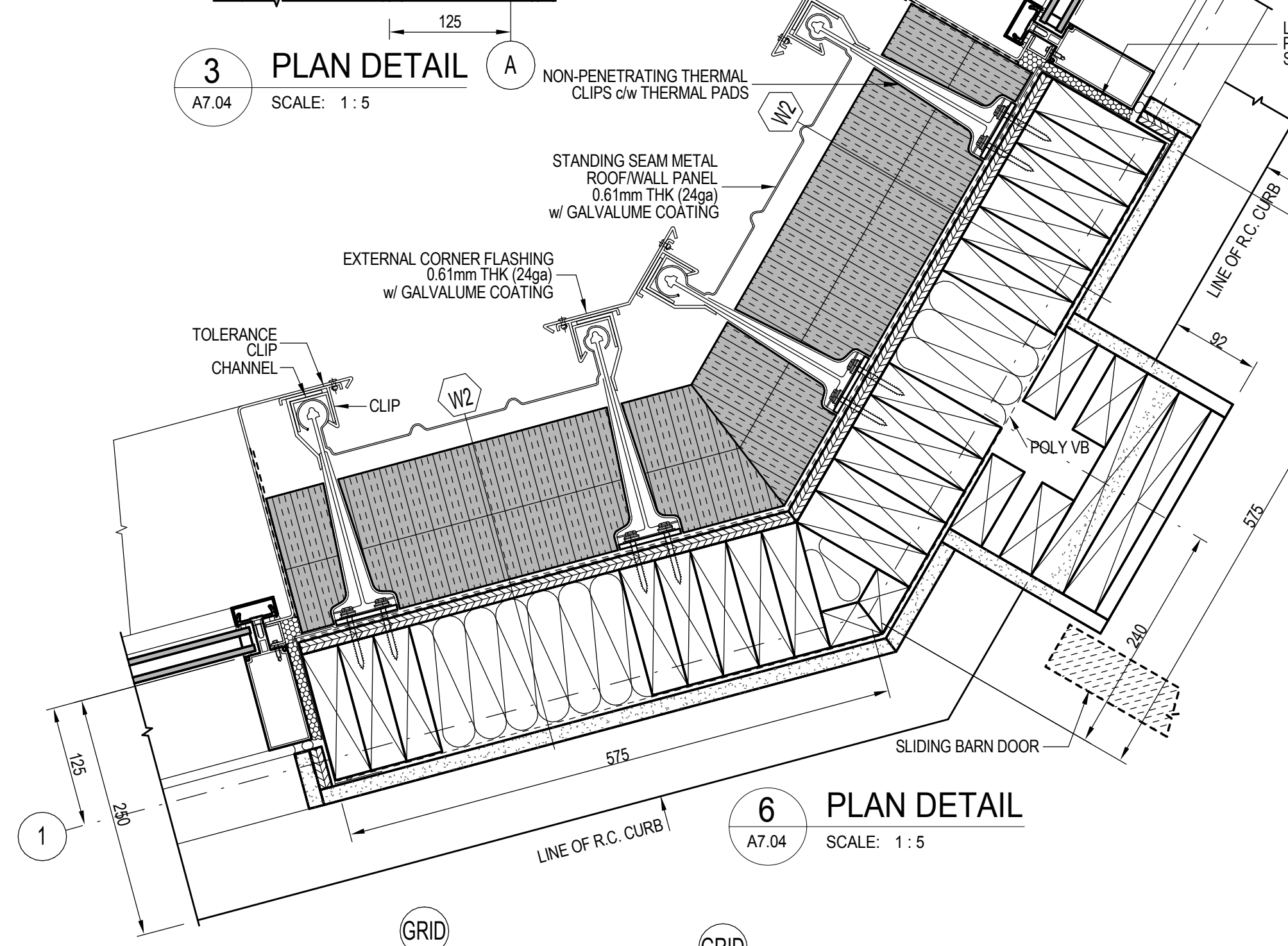
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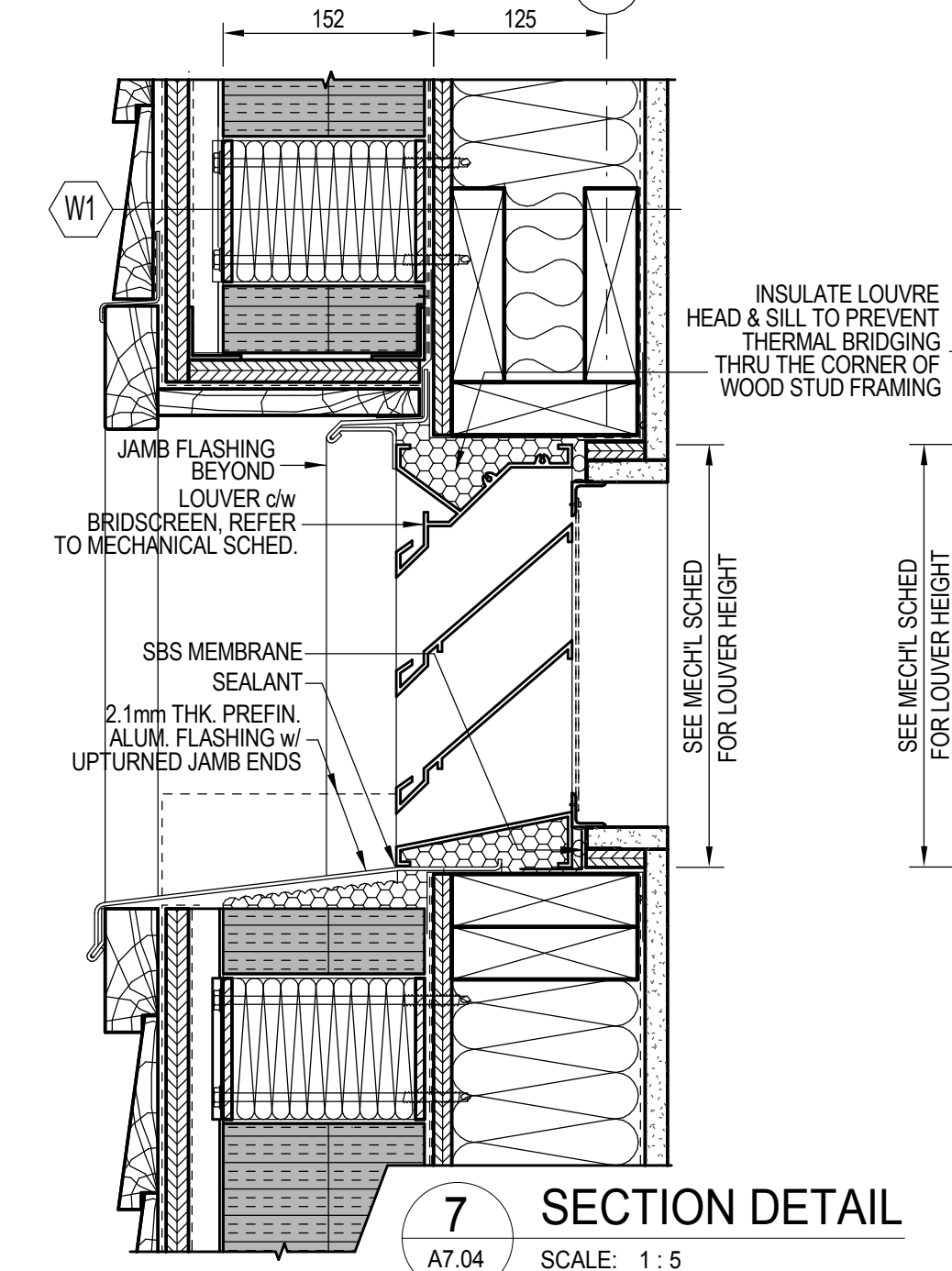
9 HOSE BIB DETAIL  
 A7.04 SCALE: 1:5



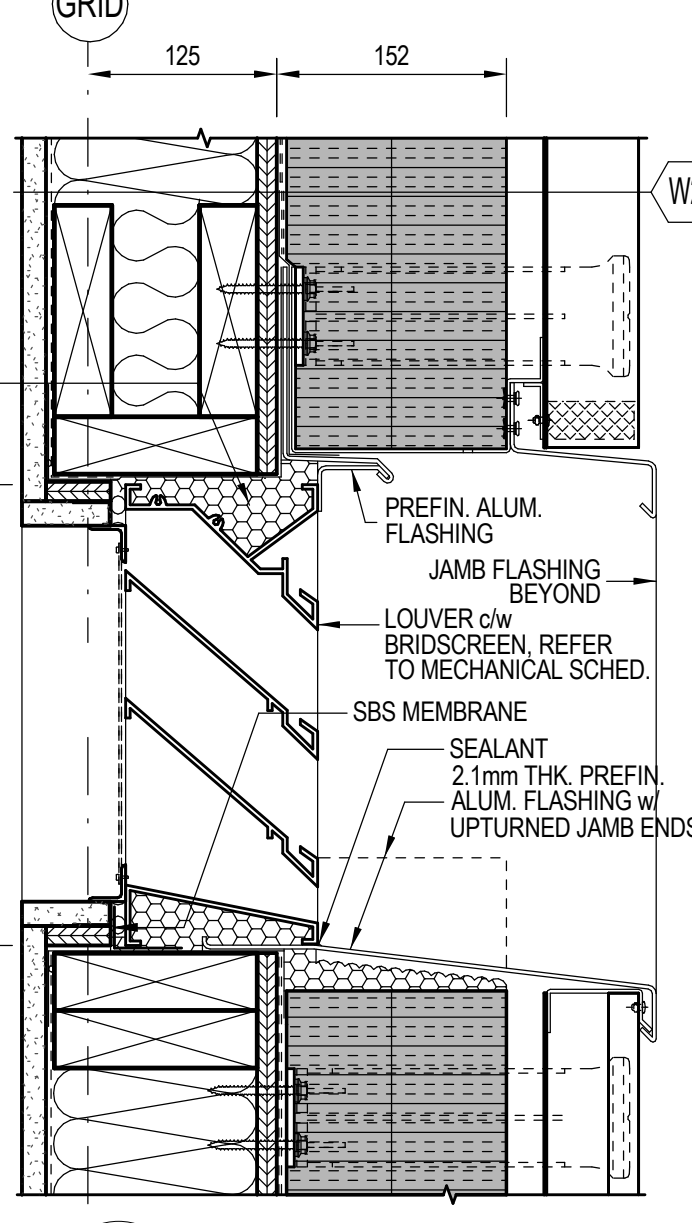
3 PLAN DETAIL  
 A7.04 SCALE: 1:5



6 PLAN DETAIL  
 A7.04 SCALE: 1:5



7 SECTION DETAIL  
 A7.04 SCALE: 1:5



8 SECTION DETAIL  
 A7.04 SCALE: 1:5

2	ISSUED FOR TENDER	12-14-18
1	ISSUED FOR 99%	10-26-18

Revision /	Description / Description	Date / Date
------------	---------------------------	-------------

Client / client



Parks Canada  
 Parcs Canada

Project title/Titre du projet

**ROGERS PASS WASHROOM  
 FACILITY AND DAY USE  
 AREA**

Approved by/Approuvé par  
 AMINA OYAKHILOME  
 Designed by/Concept par  
 PETER SCHULZ  
 Drawn by/Dessiné par  
 PID DAYANON  
 Project Manager/Administrateur de Projets  
 ANDREW OOSTING  
 Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'ingénierie  
 Client / client  
**Parks Canada**  
 Drawing title / Titre du dessin

DETAILS		
Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.04	2







**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

DETAILS
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Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.05	1



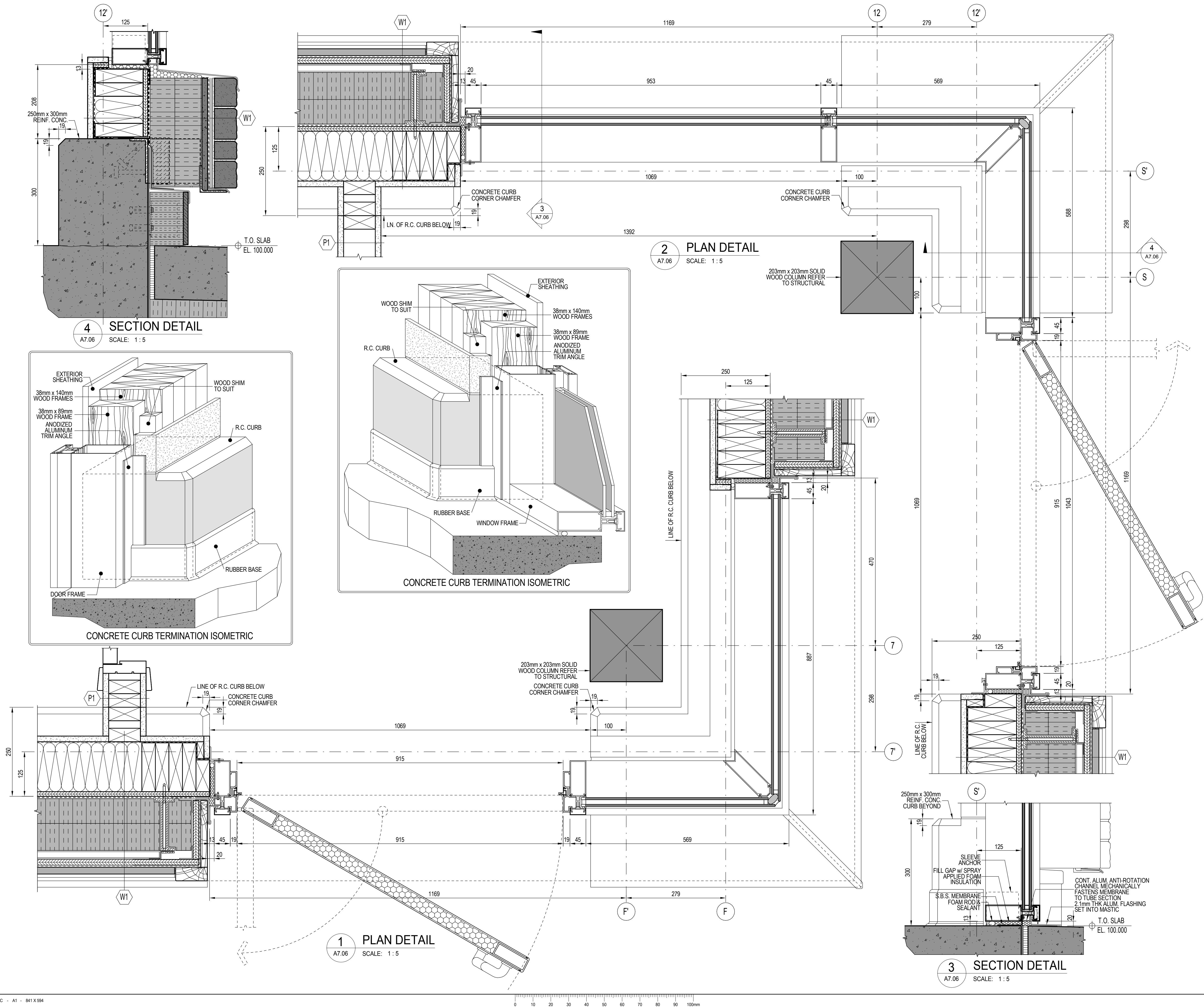




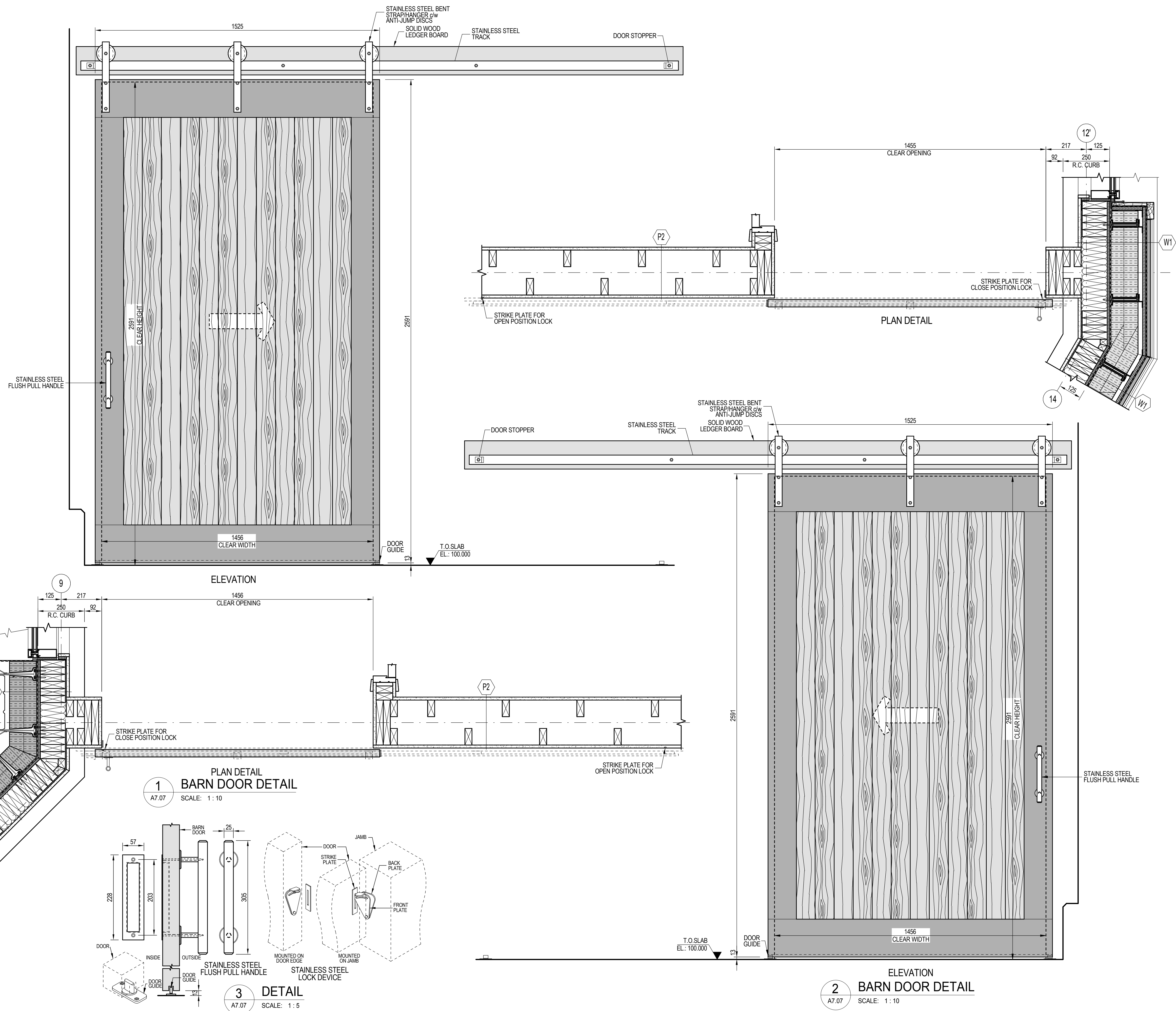
**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par AMINA OYAKHLOME
Designed by/Concept par PETER SCHULZ
Drawn by/Dessiné par PIO DATAWON
Project Manager/Administrateur de Projets ANDREW GOSTING
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie
Client / client <b>Parks Canada</b>
Drawing title / Titre du dessin

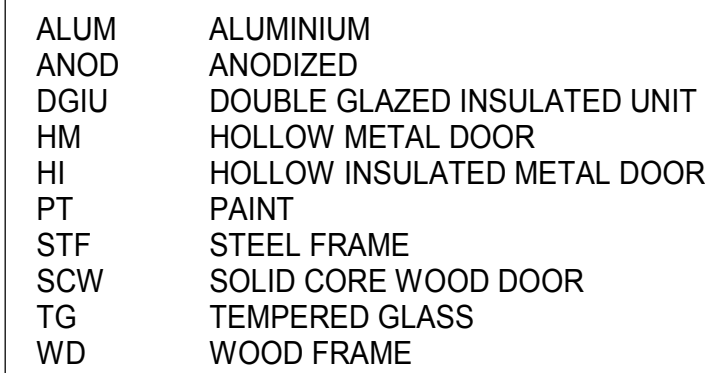
DETAILS		
Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.06	1











DOOR SCHEDULE													
TYPE	DOOR NO.	HARDWARE GROUP	DOOR LEAF			SINGLE / PAIR	DOOR		FRAME		FIRE LABEL	DOOR GLASS	COMMENTS
			WIDTH	HEIGHT	THK		MATERIAL	FINISH	MATERIAL	FINISH			
A	D1	01	915	2,286	45	SINGLE	SCW	PT	WD	PT		TG	LAMINATED GLASS
C	D2	02	915	2,286	45	SINGLE	HI	PT	ALUM	ANOD			LAMINATED GLASS
D	D3	03	915	2,134	45	SINGLE	SCW	PT	WD	PT			COLOR INTEGRATED AND RED/GREEN OCCUPANCY SENSOR
D	D4	03	915	2,134	45	SINGLE	SCW	PT	WD	PT			COLOR INTEGRATED AND RED/GREEN OCCUPANCY SENSOR
B	D5	04	815	2,134	45	SINLGE	WD	PT	WD	PT			
B	D6	05	915	2,134	45	SINGLE	HM	PT	STF	PT	45MIN		
E	D7	06	1,525	2,650	45	SINGLE	SCW	PT	WD	PT			
F	D8	06	1,525	2,650	45	SINGLE	SCW	PT	WD	PT			
H	D9	07	2,438	2,032	45	DOUBLE	HM	PT	STF	PT	45MIN		
G	D10	08	1,835	2,441	45	DOUBLE	ALUM	ANOD	ALUM	ANOD		DGIU	LAMINATED GLASS
B	D11	05	915	2,134	45	SINGLE	HM	PT	STF	PT	45MIN		



QTY	DESCRIPTION	CATALOG NUMBER
4	EA HINGE	5B81HW 114x102MM
1	EA DOOR PULL, 1" ROUND	8103EZHD 305MM I
1	EA PUSH PLATE	8200 150x405MM
1	EA OH STOP	100S ADJ
1	EA SURF. AUTO OPERATOR	9542 MS
1	EA ROCKER SWITCH	8310-806R
2	EA ACTUATOR, WALL MOUNT	8310-856
2	EA ESCUTCHEON	8310-874
1	EA MOUNTING PLATE	9540-18
1	EA KICK PLATE	8400 255MM X 40MM LDW B-CS

**HARDWARE GROUP NO. 2  
FOR USE ON DOOR #(S)  
D2**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR PRICE
3	EA HINGE	58B1HW 114x102MM NRP	652	IVE
1	EA PANIC HARDWARE	98-L-03-1439		
1	EA SURFACE CLOSER	4404XP SCUSH	626	689
1	EA KICK PLATE	8400 255MMx40MM LDW B-CS	630	IVE
1	EA DOOR SWEEP W/RAIN DRIP	WEATHERSTRIP BY DOOR SUPPLIER		
1	EA THRESHOLD	8179AA	AA	ZER
1		625A-V3-223	A	ZER

**HARDWARE GROUP NO. 3  
FOR USE ON DOOR #(S)  
D3 AND D4**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA PRIVACY W/INDICATOR	L9056P 03B L283-722 123-363	626	IVE
1	EA KICK PLATE	8400 255MM x 40MM LDW B-CS	630	IVE
1	EA WALL STOP	WS401/402CVX	626	IVE

**HARDWARE GROUP NO. 4  
FOR USE ON DOOR #(S)  
D5**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR PART NO
3	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA STOREROOM LOCK	L9056P 03B	626	SCH
1	EA SURFACE CLOSER	1461 REG	689	LCN
1	EA KICK PLATE	8400 255MM x 40MM LDW B-CS	630	IVE
1	EA WALL STOP	WS401402CVX	626	IVE

**HARDWARE GROUP NO. 5  
FOR USE ON DOOR #(S)  
D11 AND D6**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA STOREROOM LOCK	L9080P 03B	626	SCH
1	EA SURFACE CLOSER	1461 REG	689	LCN
1	EA KICK PLATE	8400 255MM x 40MM LDW B-CS	630	IVE
1	EA WALL STOP	WS4011402CVX	626	IVE
1	EA GASKETING	188SBK PSA	BSK	ZER

**HARDWARE GROUP NO. 6  
FOR USE ON DOOR #(S)  
D7 & D8**

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	1 DR TRACK KIT COMPLETE	CCS-3-810 X SIZE OF OPENING		KNC
1	EA	SNAP ON FASCIA	CC-980		KNC
2	EA	END CAP	CC-980		KNC
1	EA	CYL OPERATED FLUSHBOLT	1877 (BTM LOCK)	626	ADA
1	EA	MORTISE SLIDING DOOR LOCK	C-92-L-HL		KNC
1	EA	MORTISE CYLINDER	20-013 114	626	SCH
1	EA	DOOR PULL, 1" ROUND	PR 8103HD 255MM N	630	IVE

HARDWARE GROUP NO. 7  
FOR USE ON DOOR #(S)  
D9

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA HINGE	5BB11 14X102MM NRP	652	IVE
1	SET CONST LATCHING BOLT	FB51P	630	IVE
1	EA DUST PROOF STRIK	DP2	626	IVE
1	EA STOREROOM LOCK	L9080P 03B	626	SCH
1	EA COORDINATOR	COR X FL	628	IVE
2	EA SURFACE CLOSER	1461 REG	689	LCN
1	EA GASKETING	188SBK PSA	BK	ZER
1	EA MEETING STILE	44STST	STST	ZER

**HARDWARE GROUP NO. 8  
FOR USE ON DOOR #(S)  
D10**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	027XY	628	IVE
1	EA CONT. HINGE	027XY EPT	628	IVE
1	EA POWER TRANSFER	EPT10 CON	689	VON
1	EA FIRE EXIT HARDWARE	9849-L-F-03 4'	626	VON
1	EA ELEC FIRE EXIT HARDWARE	QEL-9849-L-F-03-CON 4'	626	VON
1	EA OH STOP	100S	630	GLY
1	EA OH STOP	100S ADJ	630	GLY
1	EA SURFACE CLOSER	4021	689	LCN
1	EA SURF. AUTO OPERATOR	9542 MS	ANCLR	LCN
1	EA MOUNTING PLATE	4020-18G	689	LCN
1	EA WEATHER RING	8310-800	BLK	LCN
1	EA ROCKER SWITCH	8310-806R	689	LCN
2	EA ACTUATOR, WALL MOUNT	8310-856	630	LCN
2	EA ESCUTCHEON	8310-874	689	LCN
1	EA MOUNTING PLATE	9540-18	689	LCN
1	EA WEATHERSTRIP BY DOOR SUPPLIER			
2	EA DOOR SWEEP W/RAIN DRIP	8197AA	AA	ZER
1	EA THRESHOLD	625A-V3	A	ZER
1	EA WIRE HARNESS	CON-TO SUIT		SCH
1	EA SIRE HARNESS	CON-6W		SCH
1	EA POWER SUPPLY	PS902 900-4RL	LGR	SCF







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Revision / Révision	Description / Description	Date / Date
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Client / client



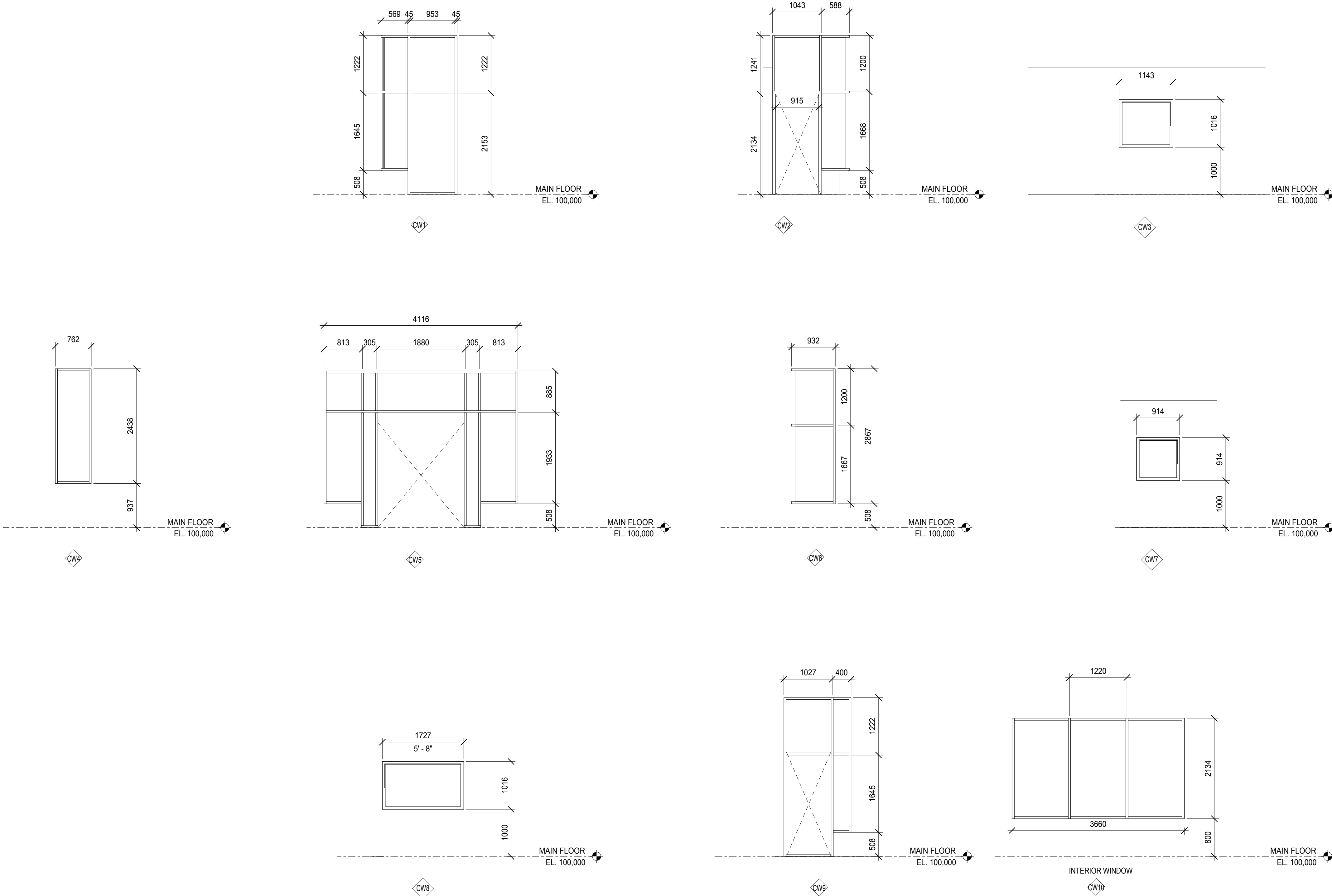
Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuve par AMINA OYAKHILOME
Designed by/Concept par PETER SCHULZ
Drawn by/Dessiné par MARAL SAFARZADEH
Project Manager/Administrateur de Projets ANDREW OOSTING
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie
Client / client <b>Parks Canada</b>
Drawing title / Titre du dessin

WINDOW SCHEDULE

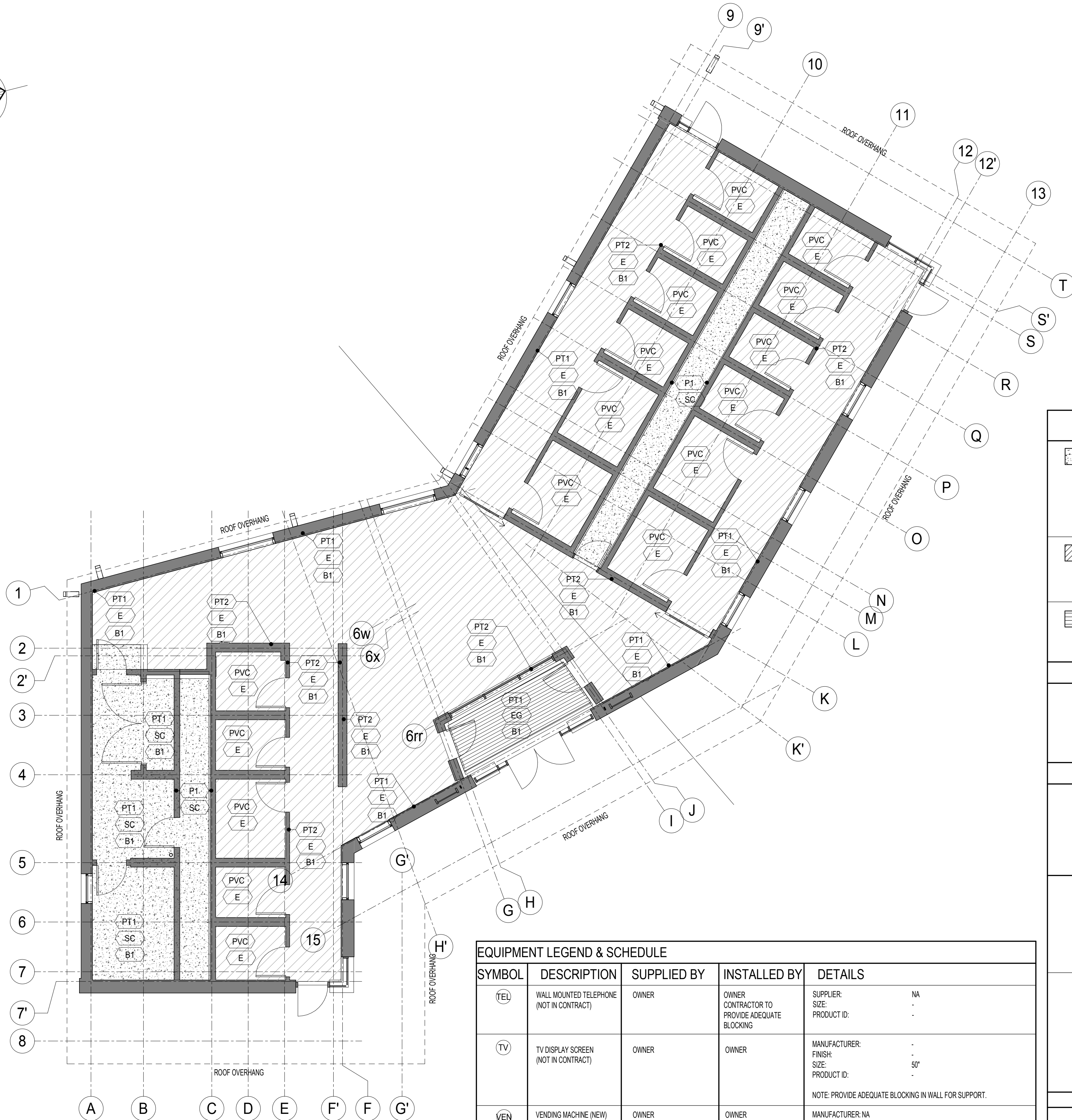
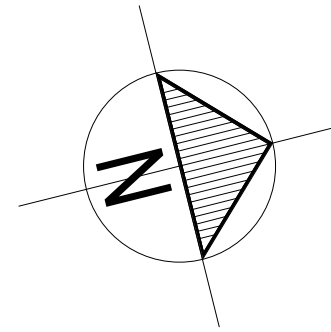
Project No. / No. du projet CAI 752	Sheet / Feuille A9.11	Revision no. / La Révision no. 3
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NOTE: ALL THE WINDOWS EXCEPT FOR CW10 ARE CURTAIN WALL WINDOW WITH DOUBLE GLAZED SEALED UNIT CW - LOW-E-COATING  
CW10 IS METAL CLAD WOOD WINDOW FRAME WITH CLEAR GLAZING - LOW-E-COATING







1 MAIN FLOOR FINISHES PLAN  
ID1.00 SCALE: 1 : 75

EQUIPMENT LEGEND & SCHEDULE				
SYMBOL	DESCRIPTION	SUPPLIED BY	INSTALLED BY	DETAILS
(TEL)	WALL MOUNTED TELEPHONE (NOT IN CONTRACT)	OWNER	OWNER	SUPPLIER: NA SIZE: - PRODUCT ID: -
(TV)	TV DISPLAY SCREEN (NOT IN CONTRACT)	OWNER	OWNER	MANUFACTURER: - FINISH: - SIZE: 50" PRODUCT ID: - NOTE: PROVIDE ADEQUATE BLOCKING IN WALL FOR SUPPORT.
(VEN)	VENDING MACHINE (NEW) (NOT IN CONTRACT)	OWNER	OWNER	MANUFACTURER: NA FINISH: - SIZE: 35" (W) X 72" (H) X 28" (D) PRODUCT ID: -
(WF)	ELECTRIC WATER COOLER (BARRIER FREE) W/ BOTTLE FILLING STATION	CONTRACTOR	CONTRACTOR	MANUFACTURER: NA FINISH: STAINLESS STEEL COLOR: LIGHT GRAY SIZE: 19" (W) X 38-5/8" (H) X 18-3/8" (L) MOUNTING TYPE: WALL COOLER/FOUNTAIN ACTIVATION: EASY-TOUCH PUSH BARS NOTE: PROVIDE ADEQUATE BLOCKING IN WALL FOR SUPPORT; WALL MOUNT SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND MEET CSA B651 BARRIER FREE STANDARD
(MS)	MOP SINK - FLOOR MOUNTED MOULDED STONE - TYPE: HIGH-DENS. COMPOSITE	CONTRACTOR	CONTRACTOR	MANUFACTURER: NA FINISH: MOULDED STONE, W/ STAINLESS STEEL DRAIN BODY SIZE: 915 mm W X 610 mm D X 254 mm H PRODUCT ID: NA

INTERIOR FINISHES SCHEDULE		
FLOOR FINISHES		
	SC	PRODUCT TYPE: SEALED CONCRETE WITH EPOXY COATING FINISHER: MATT FINISH CLASS 1 (LOW REFLECTIVITY 400 GRIT) NATURAL FINISH WITH SEALER OR CLEAR COAT TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE AS PER FINISHES PLAN ENSURE CONCRETE IS SMOOTH / CLEAN PRIOR TO APPLICATION COLOUR: - LOCATION: - NOTE: -
	E	PRODUCT TYPE: EPOXY FLOOR FINISH FINISHER: MATT FINISH COLOUR: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE AS PER FINISHES PLAN SLIP RESISTANT AND RESISTANT TO OIL/GREASE LOCATION: - NOTE: -
	EG	PRODUCT TYPE: ENTRANCE GRATE WITH CORAL INSERTS COLOR: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE LOCATION: ENTRANCE VESTIBULE
WALL BASE FINISHES		
	B1	PRODUCT TYPE: RUBBER RESILIENT BASE BOARD COLOR: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE HEIGHT: 4" THICKNESS: 0.125" LOCATION: AS PER FINISHES PLAN
WALL FINISHES		
	PT1	PRODUCT TYPE: EGGSHELL HIGH DURABILITY SCRUBBABLE PAINT - LOW V.O.C COLOR NAME: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE FINISH: EGGSHELL HIGH-DURABILITY LOCATION: AS PER FINISHES PLAN NOTE: ENSURE NO VISIBLE STREAKING
	PT2	PRODUCT TYPE: EGGSHELL HIGH DURABILITY SCRUBBABLE PAINT - LOW V.O.C COLOR NAME: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE FINISH: EGGSHELL HIGH-DURABILITY LOCATION: AS PER FINISHES PLAN NOTE: ENSURE NO VISIBLE STREAKING
	PVC	PRODUCT TYPE: PVC WALL COVERING SURFACE TREATMENT: ALTRO WHITEROCK OR APPROVED EQUIVALENT COLOR NAME: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE THICKNESS: 1/10" LENGTH: 118" WIDTH: 48" LOCATION: ALL WASHROOMS NOTE: INSTALL PVC COVERING UP TO 58" HEIGHT WITH EDGER. PT2 FOR THE REST OF THE WALL SURFACE
FINISHES NOTES		
NOTES: 1. ALL FINISHES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS 2. SEE INTERIOR FINISH SCHEDULE FOR FLOOR, WALL, & MILLWORK FINISH SPECIFICATIONS. 3. ALL FLOOR FINISHES TO TERMINATE AT CENTRE LINE OF DOOR SLAB. 4. REFER TO INTERIOR FINISHES SCHEDULE FOR TRANSITION STRIP INFORMATION. 5. PROVIDE SAMPLES TO DESIGNER FOR APPROVALS 6. GAPS BETWEEN COLUMN PLATE AND FLOOR SHALL BE FILLED AND SEALED WITH MOULD RESISTANCE SEALANT 7. ALL COLUMNS ARE ROUGH SAWN		



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5	ISSUED FOR TENDER	12-14-18
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1	ISSUED FOR 30%	03-28-18

Client / client

Parcs Canada

Project title/Titre du projet

Approved by/Approuvé par  
AMINA OYAKHILOME

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PETER SCHULZ

Drawn by/Dessiné par  
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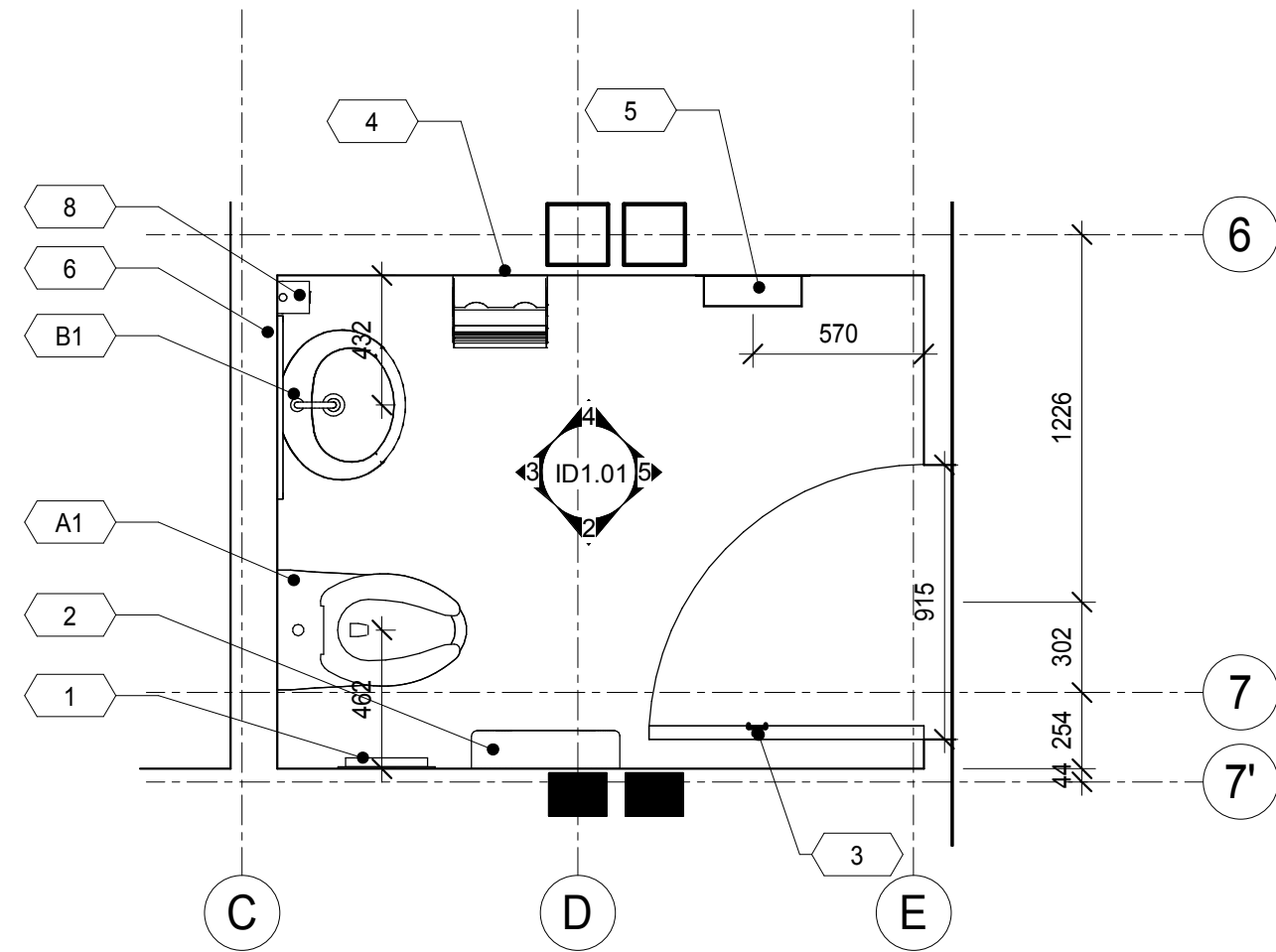
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Parks Canada

Drawing title / Titre du dessin

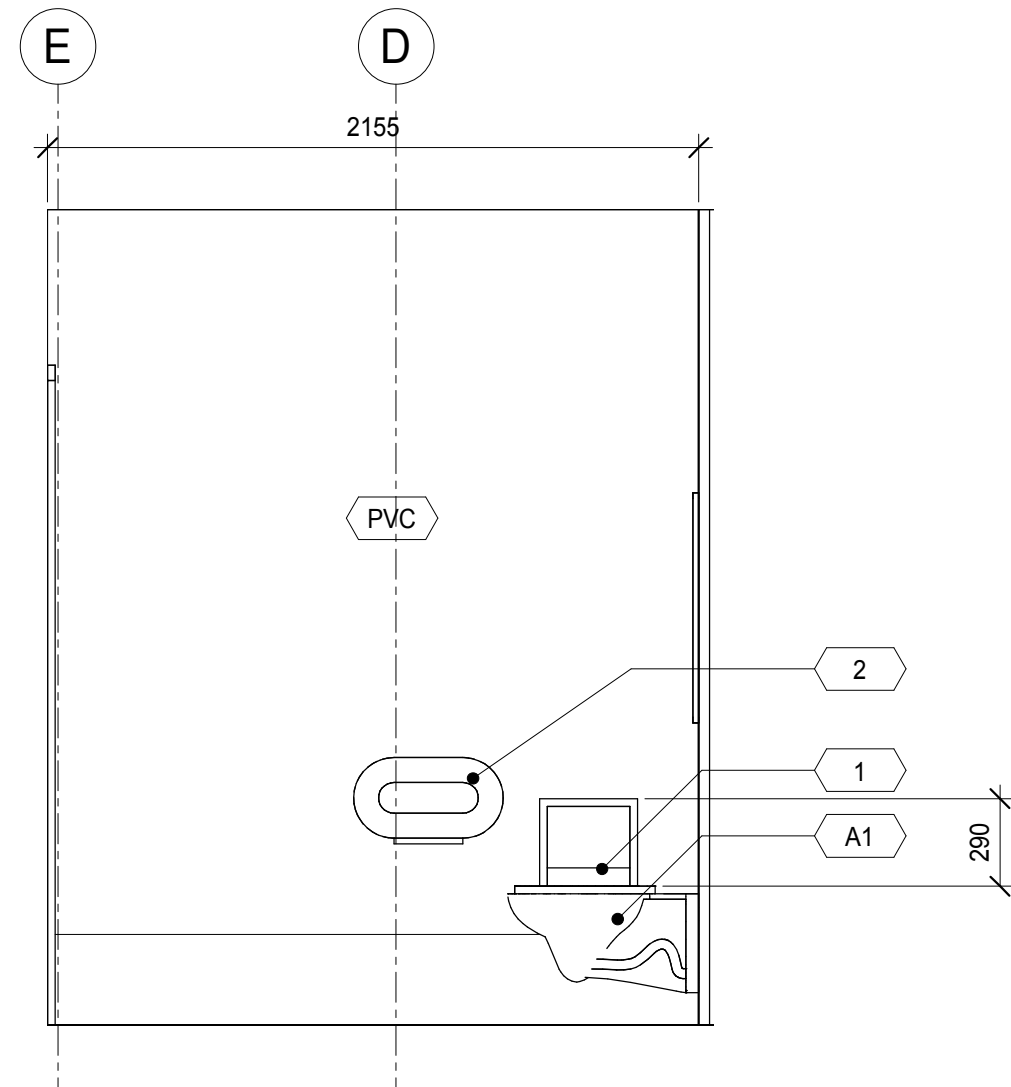
MAIN FLOOR FINISHES PLAN

Project No. / No. du projet CAI 752	Sheet / Feuille ID1.00	Revision no. / La Révision no. 5
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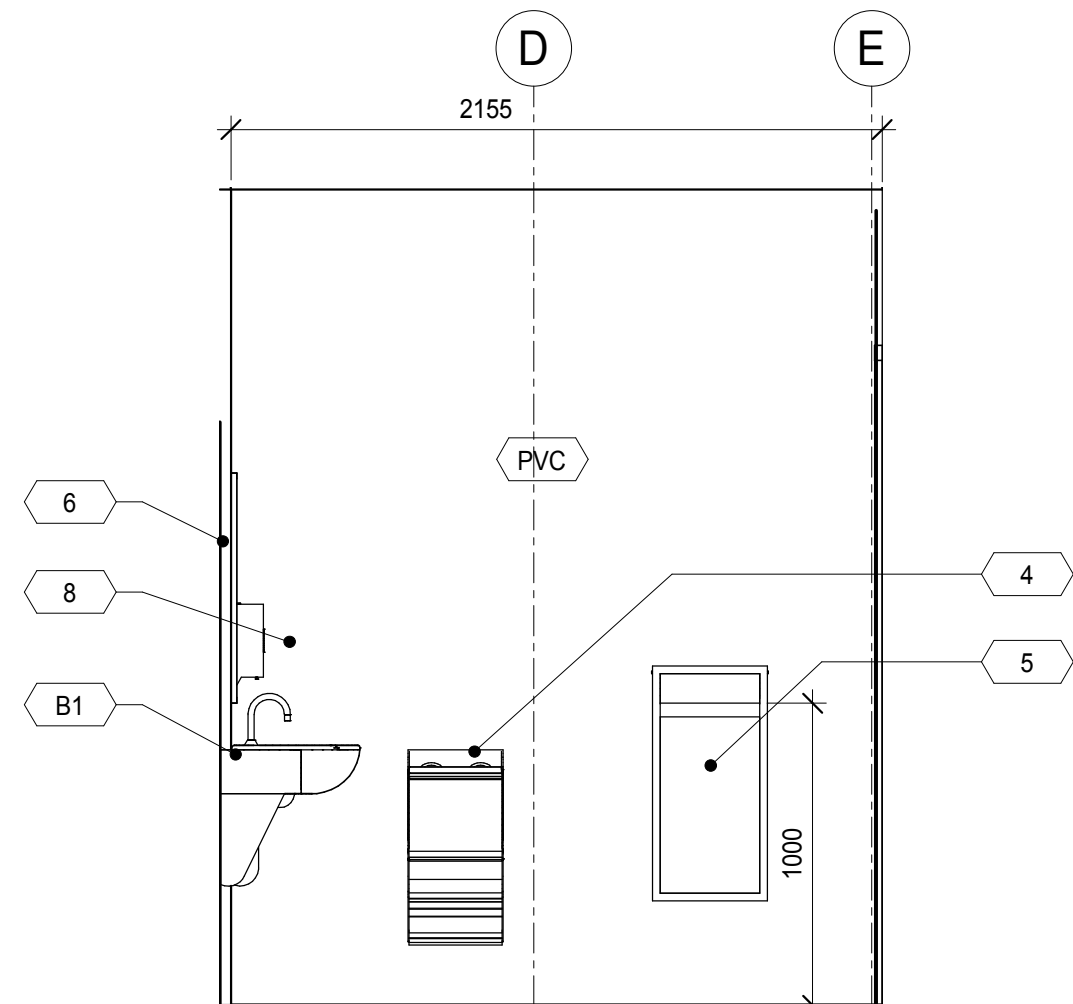




1 ENLARGED PLAN SOUTH WING - Callout 1  
ID1.01 SCALE: 1 : 25



2 TYPICAL WASHROOM - SIDE  
ID1.01 SCALE: 1 : 25

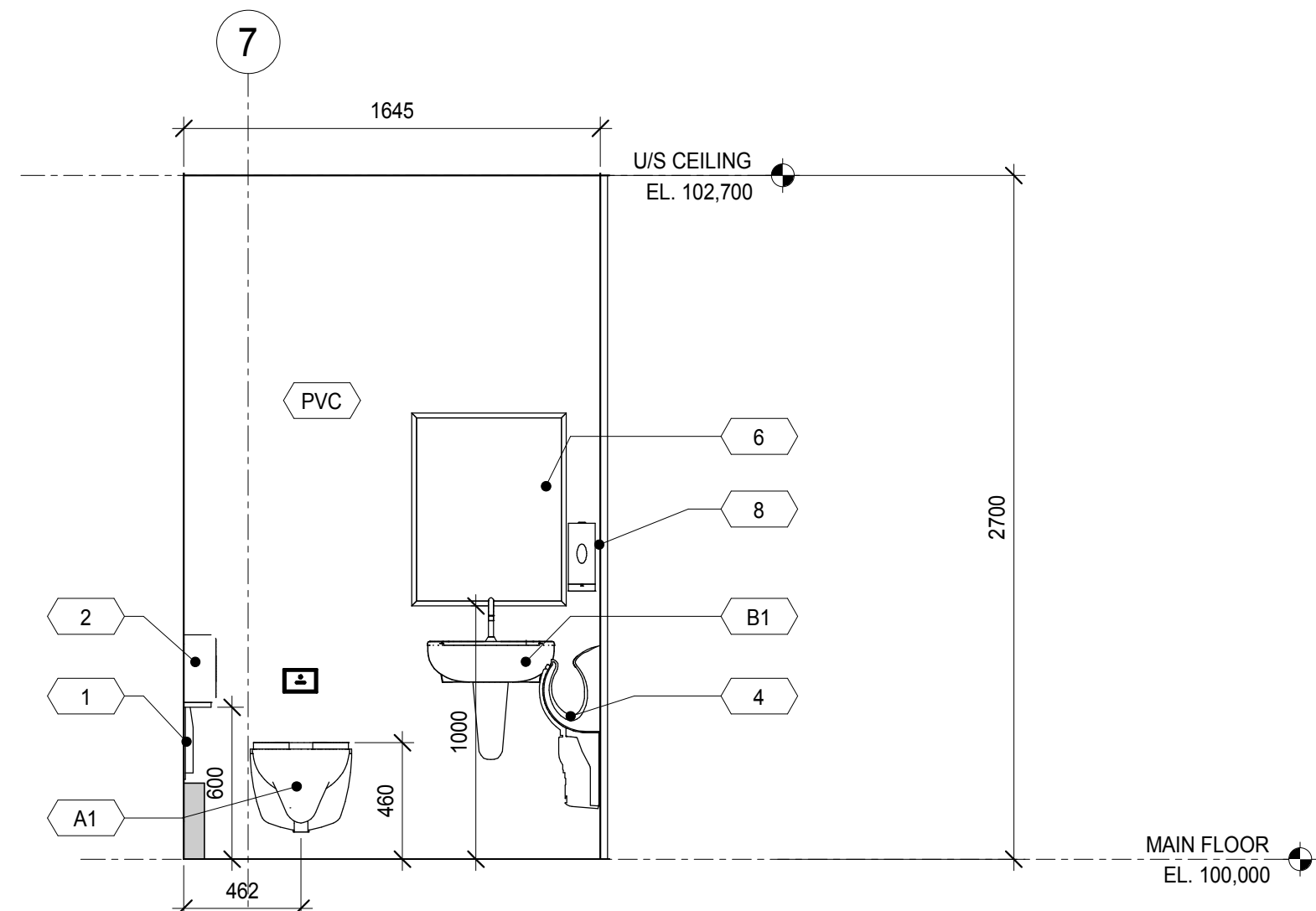


4 TYPICAL WASHROOM - SIDE VIEW  
ID1.01 SCALE: 1 : 25

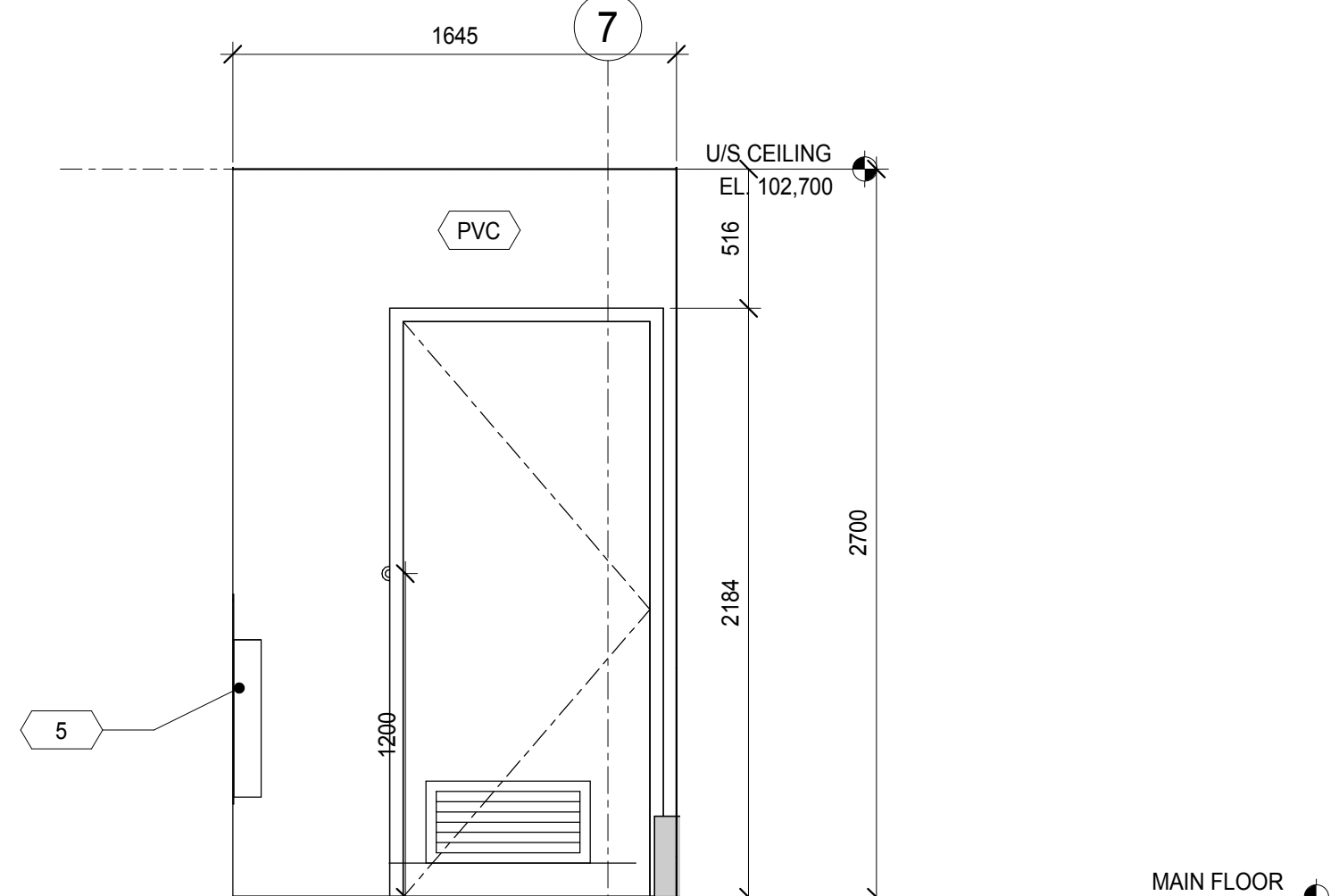
#### WASHROOM ACCESSORIES NOTES:

1. WASHROOM LAYOUT, FIXTURES ACCESSORIES, MOUNTING HEIGHTS, ETC. SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND MEET CSA B651 BARRIER FREE STANDARD
2. ALL DIMENSIONS TO BE CONFIRMED ON SITE
3. SUPPLY AND INSTALL WASHROOM EQUIPMENT TO MANUFACTURER'S INSTALLATION INSTRUCTIONS
4. FOR ANY N.I.C. PRODUCTS SUPPLIED BY OTHERS AND TO BE INSTALLED BY CONTRACTOR, THE CONTRACTOR IS REQUIRED TO ADVISE DESIGNER MIN. 6 WEEKS PRIOR TO INSTALL DATE WHEN UNITS WILL BE REQUIRED ON SITE.
5. ALL OTHER WALL MOUNTED FIXTURES TO BE FULLY SUPPORTED WITH 19 mm WATER RESISTANT PLYWOOD AND ENSURE ADEQUATE BLOCKING IS PROVIDED
6. REFER TO FINISHES MATERIALS SCHEDULE FOR FINISHES
7. BUMPERS TO BE INSTALLED ON INTERIOR HINGE SIDE OF DOOR AND ALIGNED TO BUMP THE ADJACENT PARTITION WITHOUT CAUSING DAMAGE
8. ALL GRAB BARS TO BE FULLY SUPPORTED WITH 19 mm WATER RESISTANT PLYWOOD
9. INTERIOR SIGNAGE TO INCLUDE INTERNATIONAL PICTOGRAMS FOR EACH HANDICAP ACCESSIBLE WOMEN'S AND MEN'S WASHROOM @ MIN. 150 mm HIGH. DESIGN TO FOLLOW APPROVED PARKS CANADA'S BRANDING STANDARD. ALL INTERNAL SIGNAGE PROVIDED BY OTHERS TO BE APPROVED BY PARKS CANADA'S BRANDING DEPARTMENT
10. ALL EXPOSED EDGES AND OUTSIDE CORNERS TO BE FINISHED WITH STAINLESS STEEL SCHLUTER TRIM
11. FAUCETS SHALL BE SENSORED AND BE SELF-POWERED TO ELIMINATE INDIVIDUAL POWER FOR EACH FAUCET
12. BARRIER FREE DOORS SHALL BE PROVIDED WITH SPRING-TYPE OR GRAVITY HINGES SO THAT THE DOOR CLOSURES AUTOMATICALLY, AND BE OPERABLE FROM THE OUTSIDE UNDER EMERGENCY CONDITIONS.
13. BARRIER FREE WASHROOM TO BE EQUIPPED WITH A BACK SUPPORT
14. CONTRACTOR TO ENSURE HARDWARE MEET CSA REQUIREMENTS

ACCESSORIES LEGEND		PLUMBING FIXTURES	
1	SANITARY DISPOSAL UNIT - STAINLESS STEEL W/ SATIN FINISH	A1	BARRIER FREE WALL HUNG TOILET
2	TOILET PAPER DISPENSER - STAINLESS STEEL W/ SATIN FINISH	B1	SINK
3	COAT HOOK - STAINLESS STEEL W/ SATIN FINISH		
4	HAND INSERT DRYER - STAINLESS STEEL W/ SATIN FINISH		
5	WASTE RECEPTACLE - STAINLESS STEEL W/ SATIN FINISH		
6	MIRROR - 24"x30"		
7	FOLDING CHANGE TABLE		
8	AUTOMATIC SOAP DISPENSER - STAINLESS STEEL W/ SATIN FINISH		
9	GRAB BAR - STAINLESS STEEL (SATIN) W/ PEENED FINISH		
10	"D" TYPE DOOR PULL - STAINLESS STEEL W/ SATIN FINISH		



3 TYPICAL WASHROOM  
ID1.01 SCALE: 1 : 25

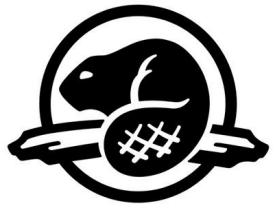


5 TYPICAL WASHROOM - DOOR SIDE  
ID1.01 SCALE: 1 : 25



Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title/Titre du projet

#### ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par  
AMINA OYAKHLOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
MARAL SAFARZADEH

Project Manager/Administrateur de Projets  
ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

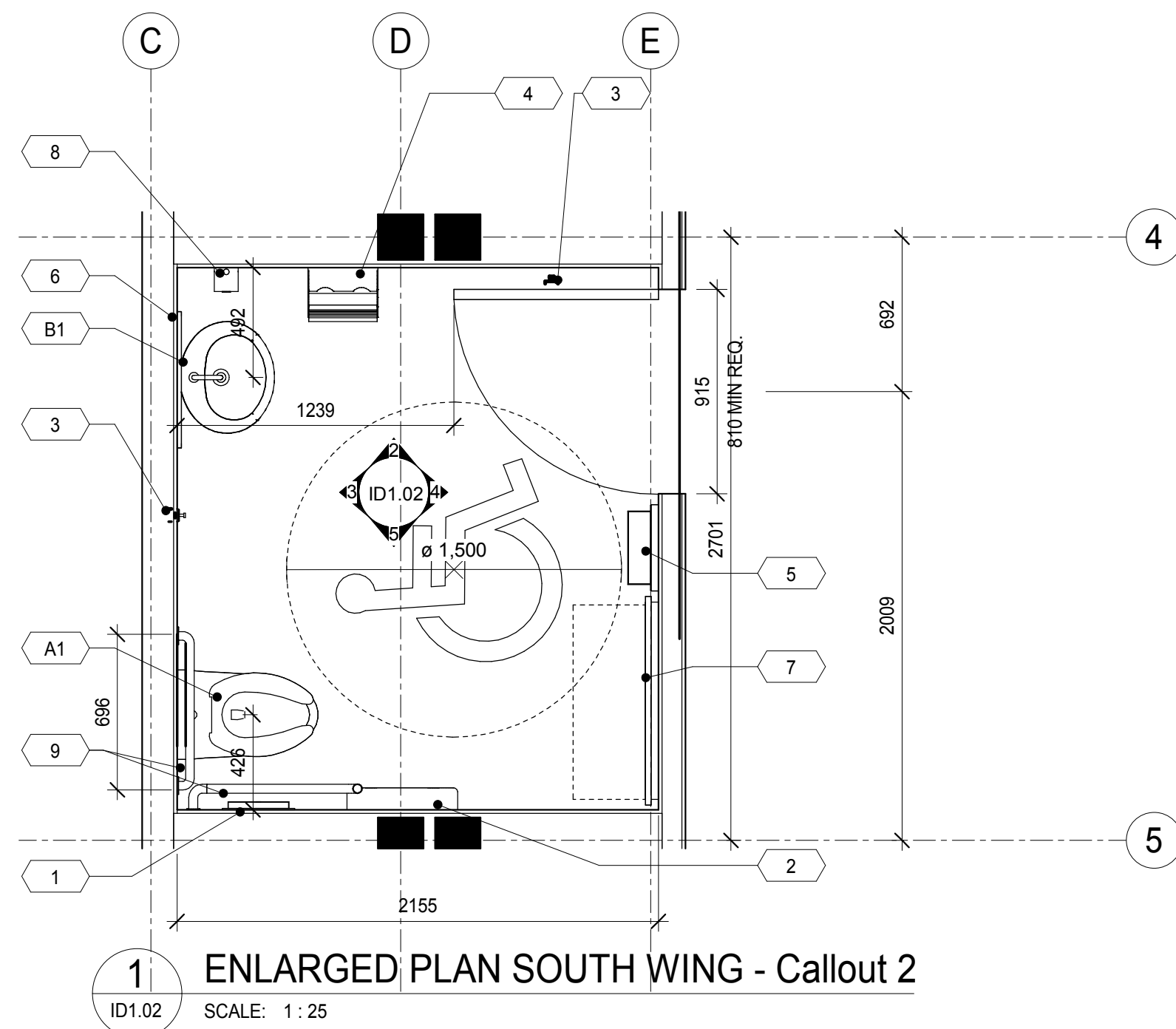
Client / client

Parks Canada

Drawing title / Titre du dessin

#### ENLARGED WASHROOM PLAN AND ELEVATIONS



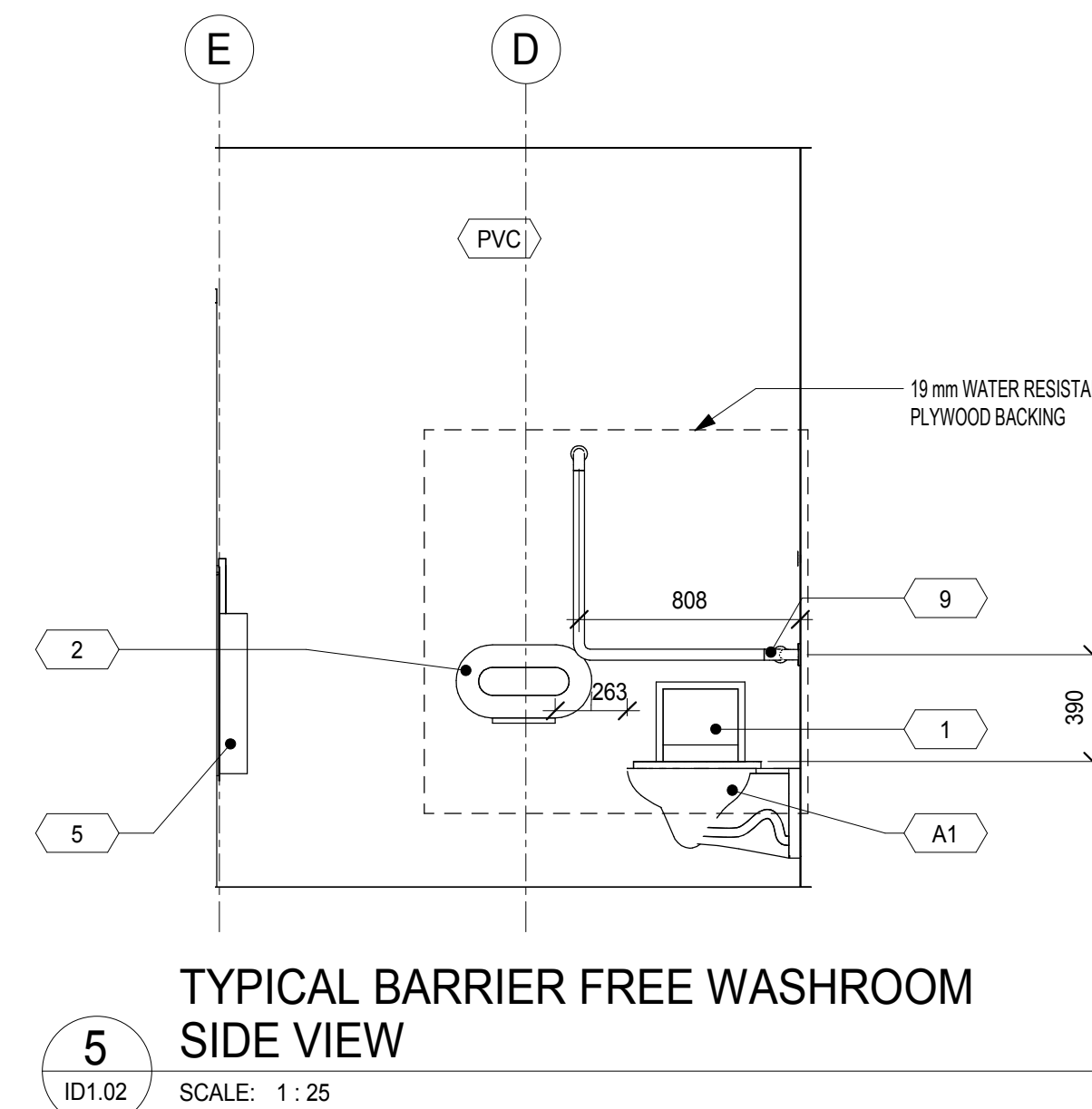
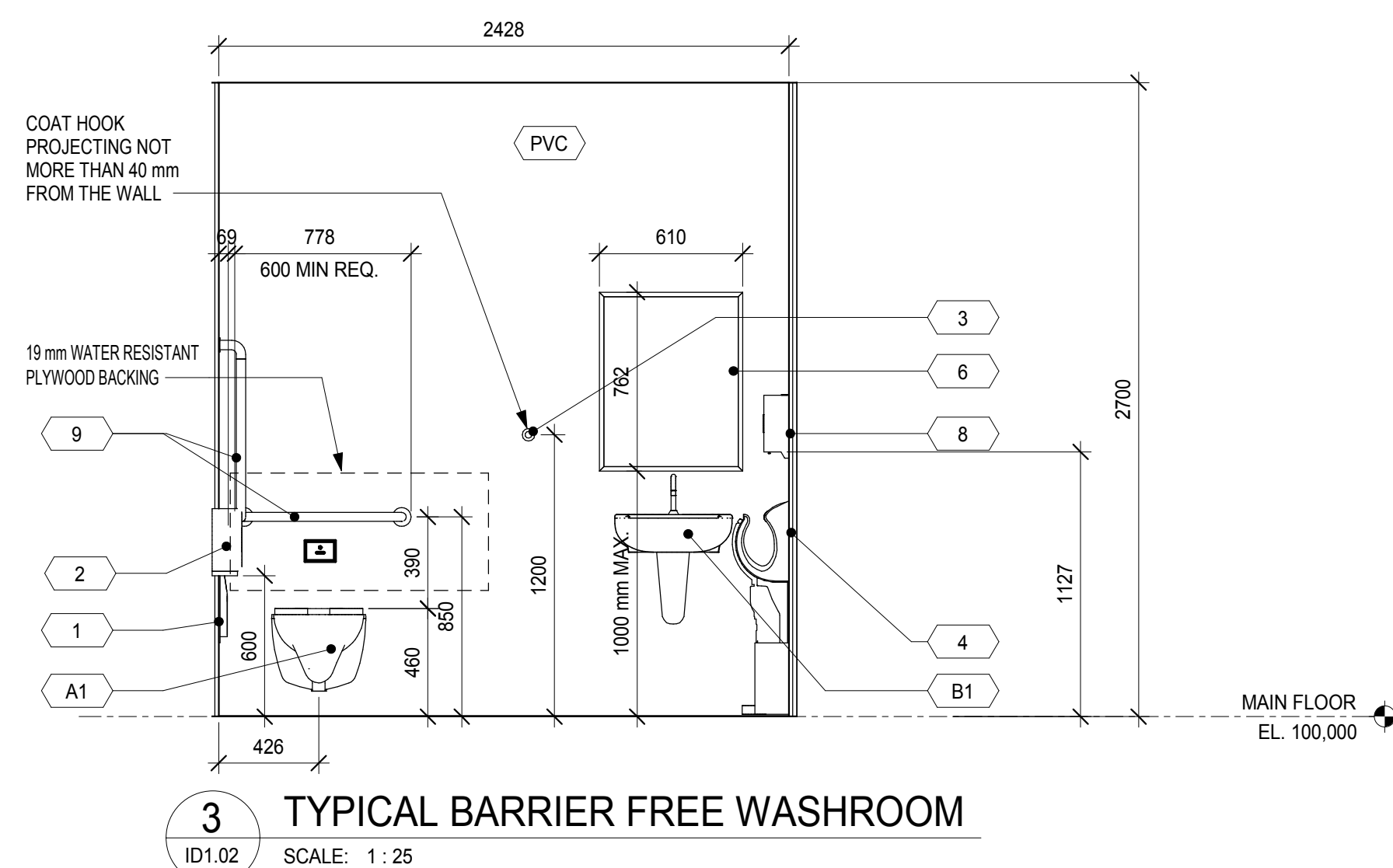
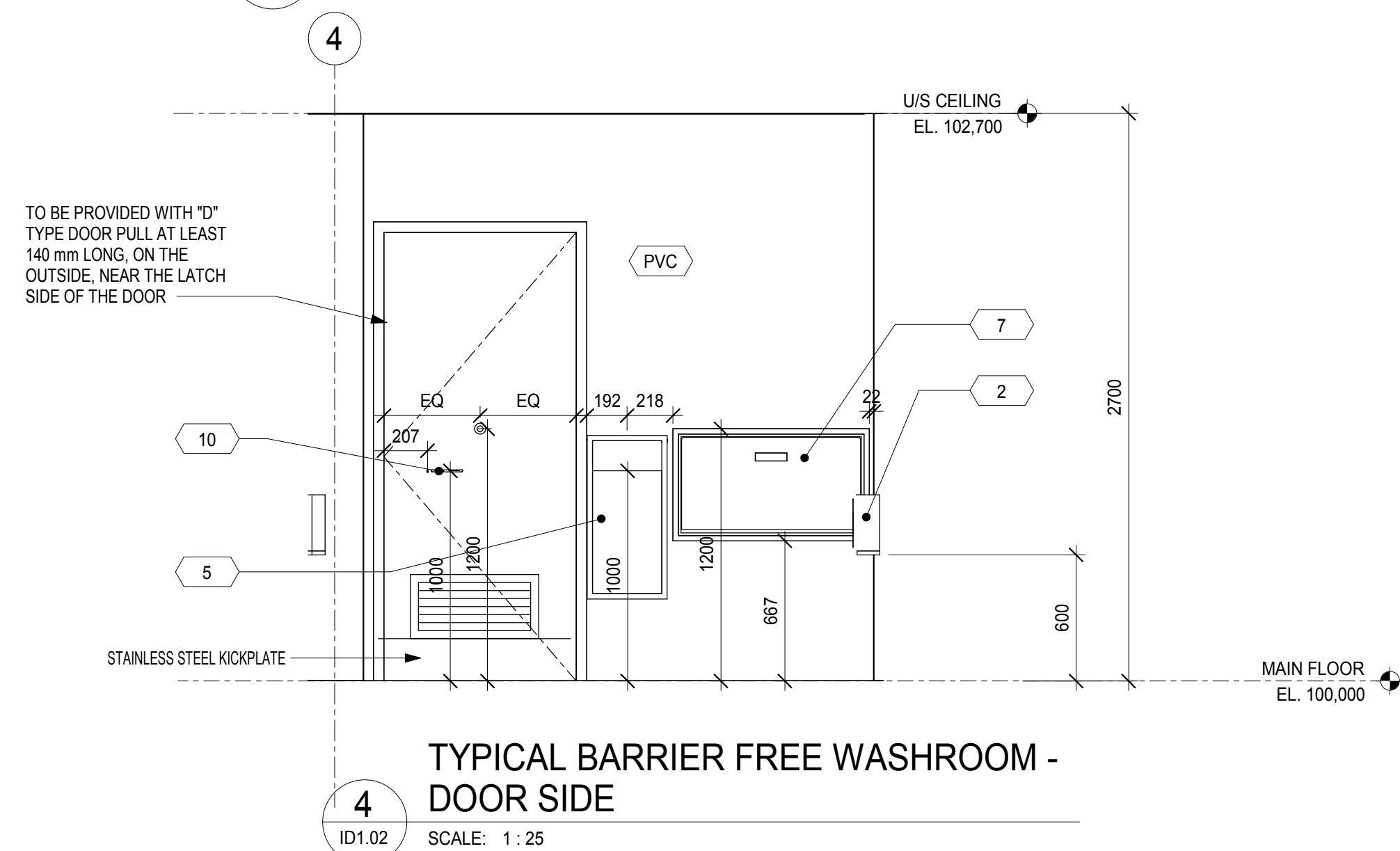
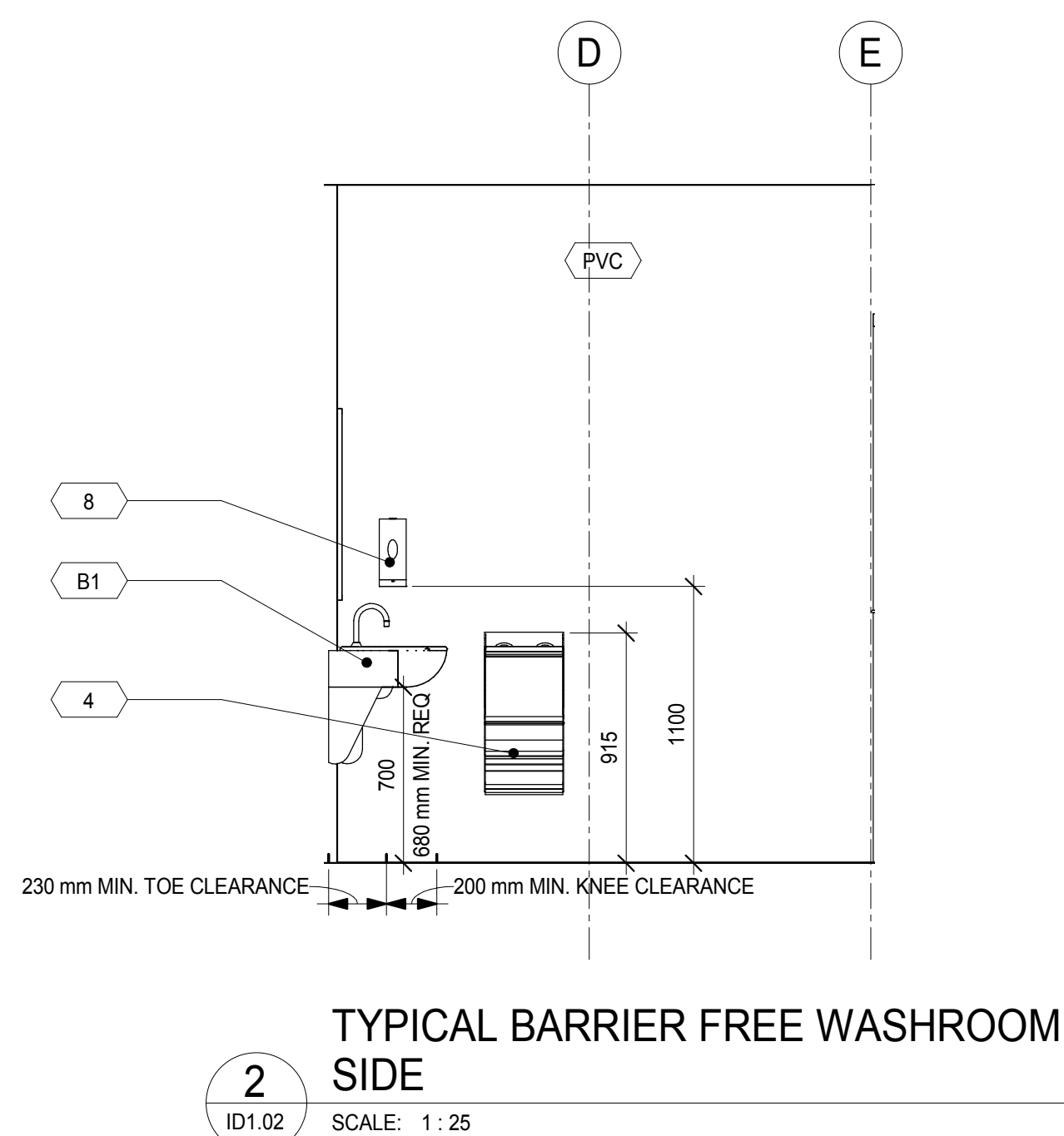


WASHROOM ACCESSORIES NOTES:

1. WASHROOM LAYOUT, FIXTURES, ACCESSORIES, MOUNTING HEIGHTS, ETC. SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND MEET CSA 8661 BARRIER FREE STANDARD
2. ALL DIMENSIONS TO BE CONFIRMED ON SITE
3. SUPPLY AND INSTALL WASHROOM EQUIPMENT TO MANUFACTURER'S INSTALLATION INSTRUCTIONS
4. FOR ANY N.I.C. PRODUCTS SUPPLIED BY OTHERS AND TO BE INSTALLED BY CONTRACTOR, THE CONTRACTOR IS REQUIRED TO ADVISE DESIGNER MIN. 6 WEEKS PRIOR TO INSTALL DATE WHEN UNITS WILL BE REQUIRED ON SITE.
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ACCESSORIES LEGEND		PLUMBING FIXTURES	
1	SANITARY DISPOSAL UNIT - STAINLESS STEEL W/ SATIN FINISH	A1	BARRIER FREE WALL HUNG TOILET
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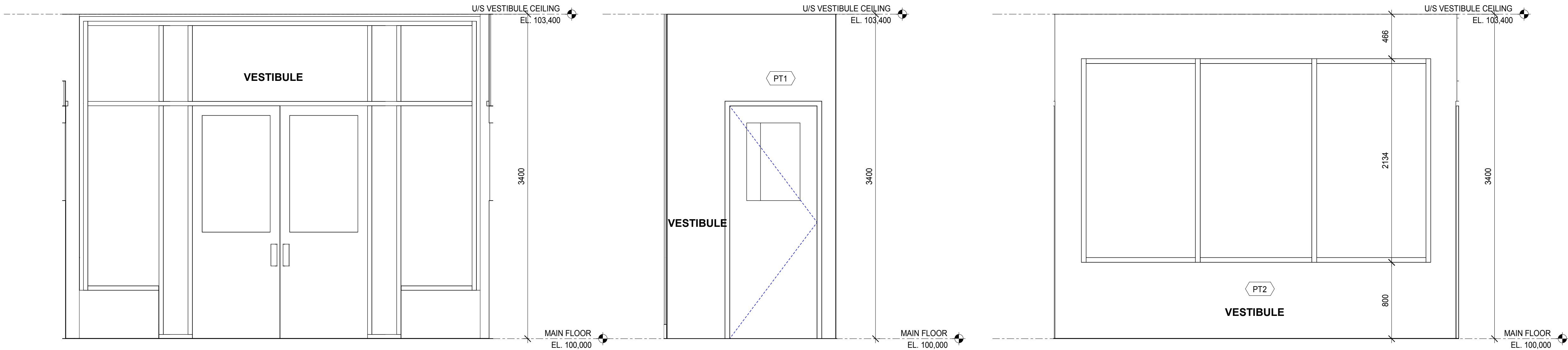
PLUMBING FIXTURES
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4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	08-20-18
1	ISSUED FOR 60%	05-31-18
Revision / Revision	Description / Description	Date / Date







1 VESTIBULE - EAST ELEVATION

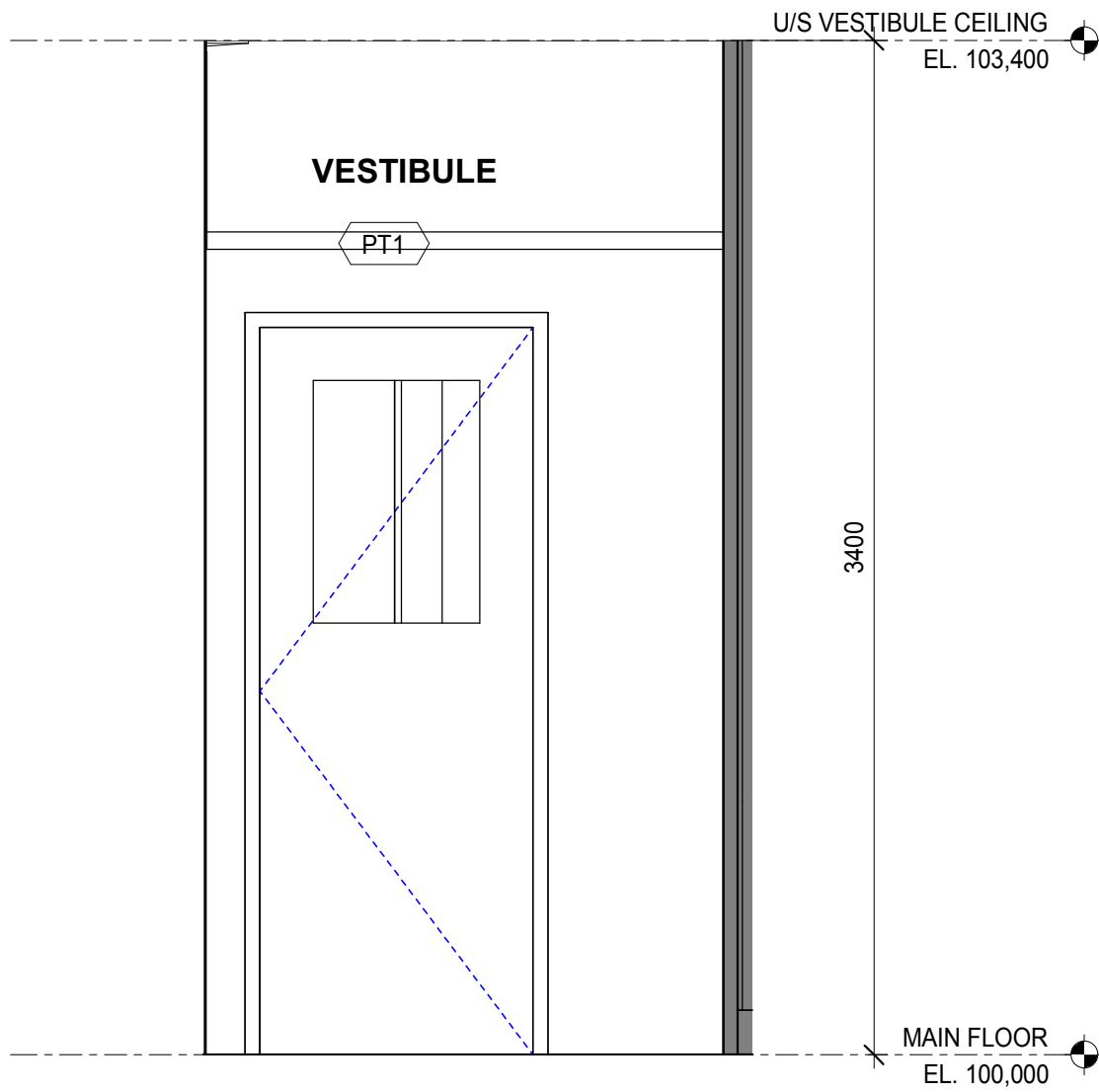
ID1.03 SCALE: 1 : 25

3 VESTIBULE - SOUTH ELEVATION

ID1.03 SCALE: 1 : 25

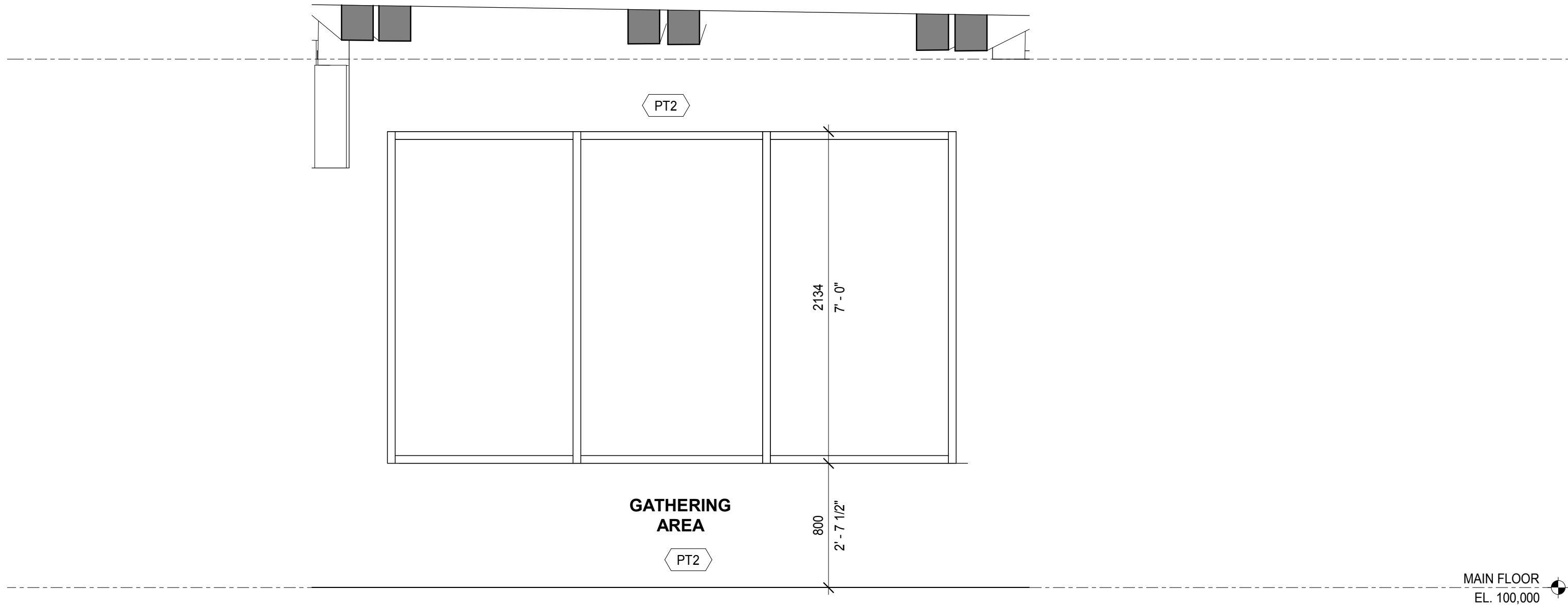
4 VESTIBULE - WEST ELEVATION

ID1.03 SCALE: 1 : 25



2 VESTIBULE - NORTH ELEVATION

ID1.03 SCALE: 1 : 25



5 GATHERING AREA - EAST ELEVATION

ID1.03 SCALE: 1 : 25


3	ISSUED FOR TENDER	
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90% REVIEW	09-25-18

Revision / Révision	Description / Description	Date / Date
Client / client	U/S VESTIBULE CEILING	



Project title/Titre du projet

## ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
MARAL SAFARZADEH

Project Manager/Administrateur de Projets  
ANDREW OOSTING

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
Parks Canada

Drawing title / Titre du dessin

INTERIOR ELEVATIONS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	ID1.03	3







Revision / Révision	Description / Description	Date / Date
3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90% REVIEW	09-25-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par	AMINA OYAKHILOME
Designed by/Concept par	PETER SCHULZ
Drawn by/Dessiné par	MARAL SAFARZADEH
Project Manager/Administrateur de Projets	ANDREW OOSTING
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie	

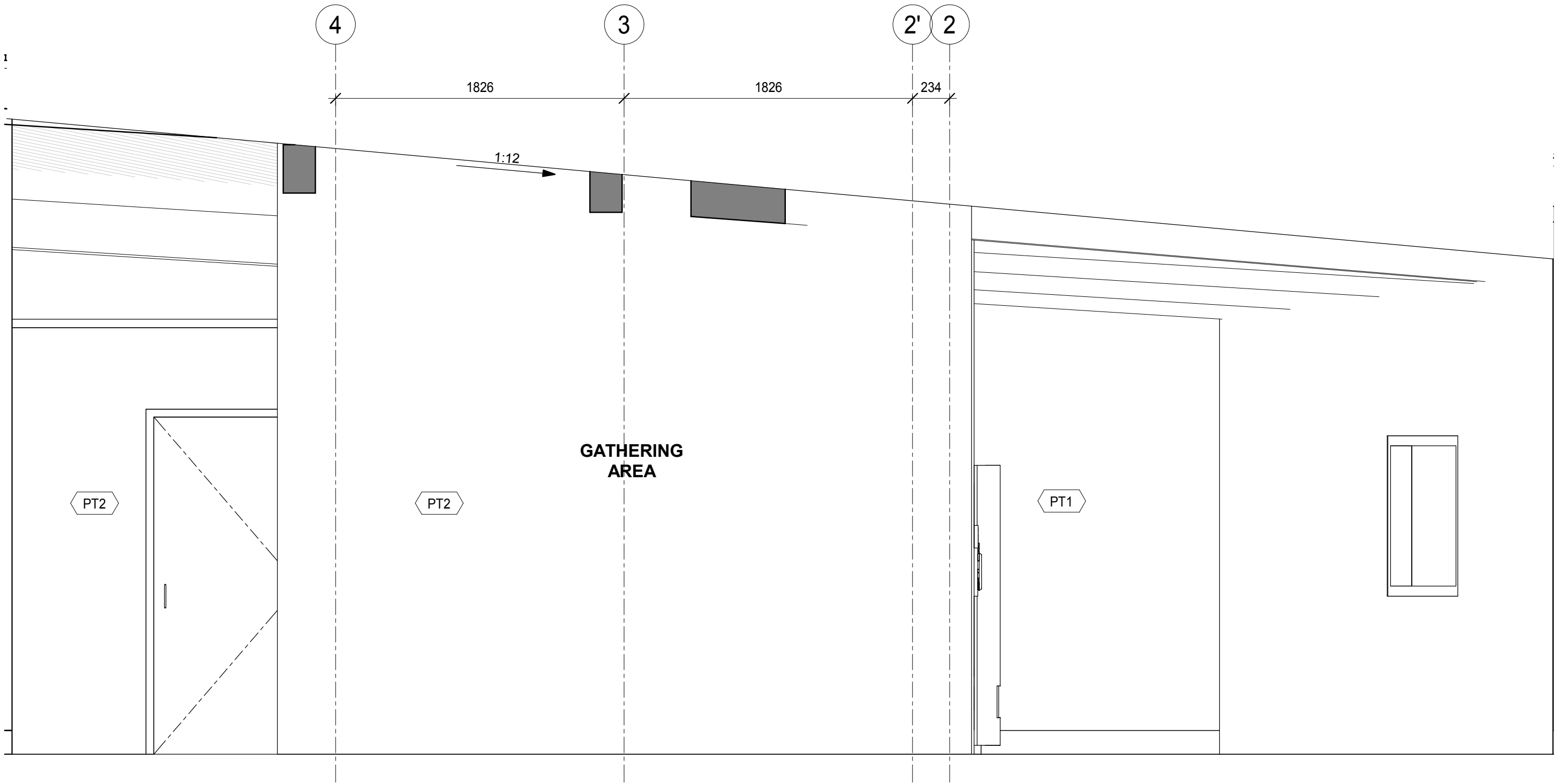
Client / client

Parks Canada

Drawing title / Titre du dessin

INTERIOR ELEVATIONS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	ID1.04	3

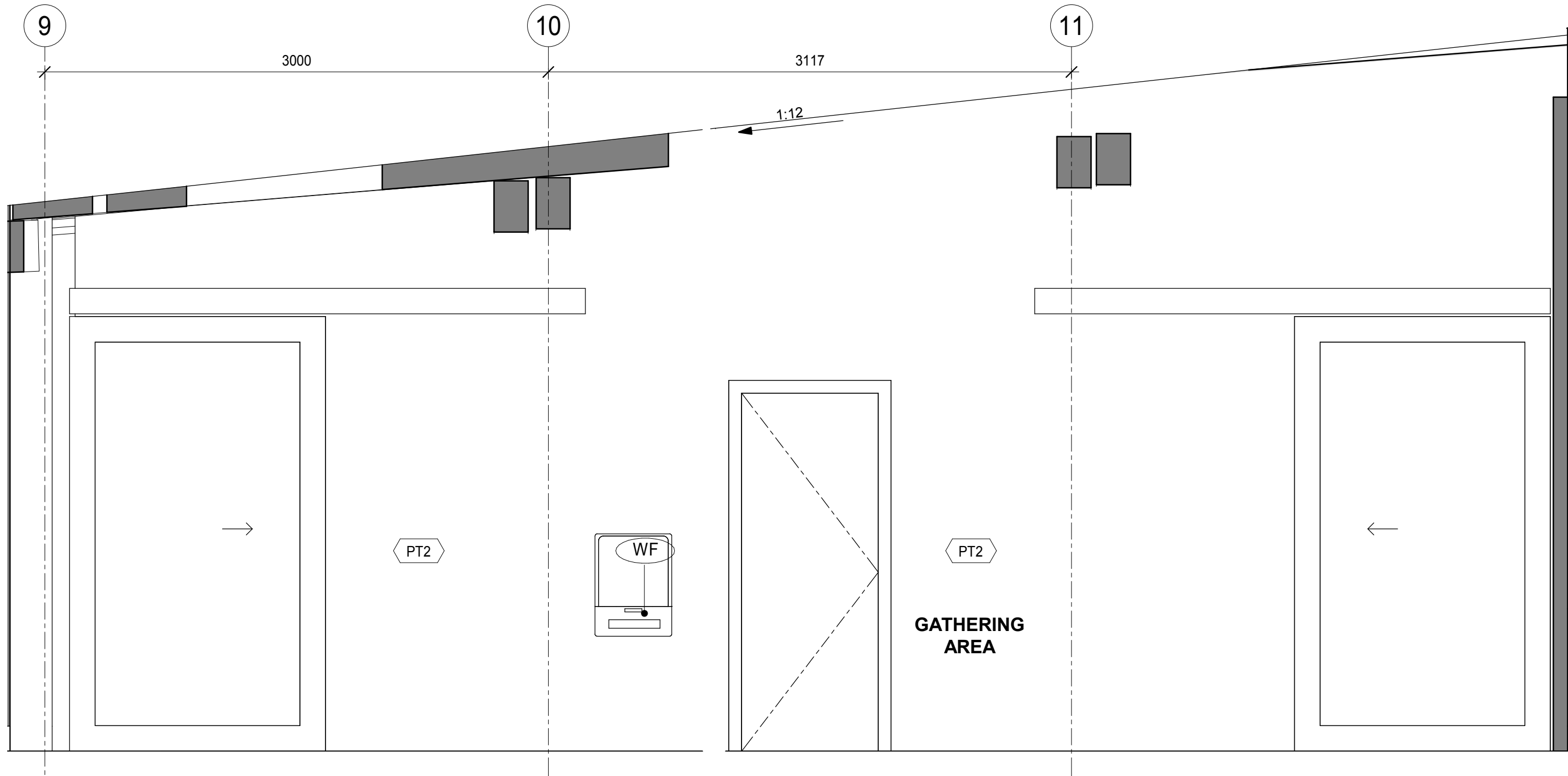


3

GATHERING AREA - SOUTH ELEVATION

ID1.04

SCALE: 1 : 25



1

GATHERING AREA - NORTH ELEVATION

ID1.04

SCALE: 1 : 25







3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90% REVIEW	09-25-18

Revision / Révision	Description / Description	Date / Date
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Client / client



Project title/Titre du projet

ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

Approved by/Approuvé par  
AMINA OYAKHILOME

Designed by/Concept par  
PETER SCHULZ

Drawn by/Dessiné par  
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Project Manager/Administrateur de Projets  
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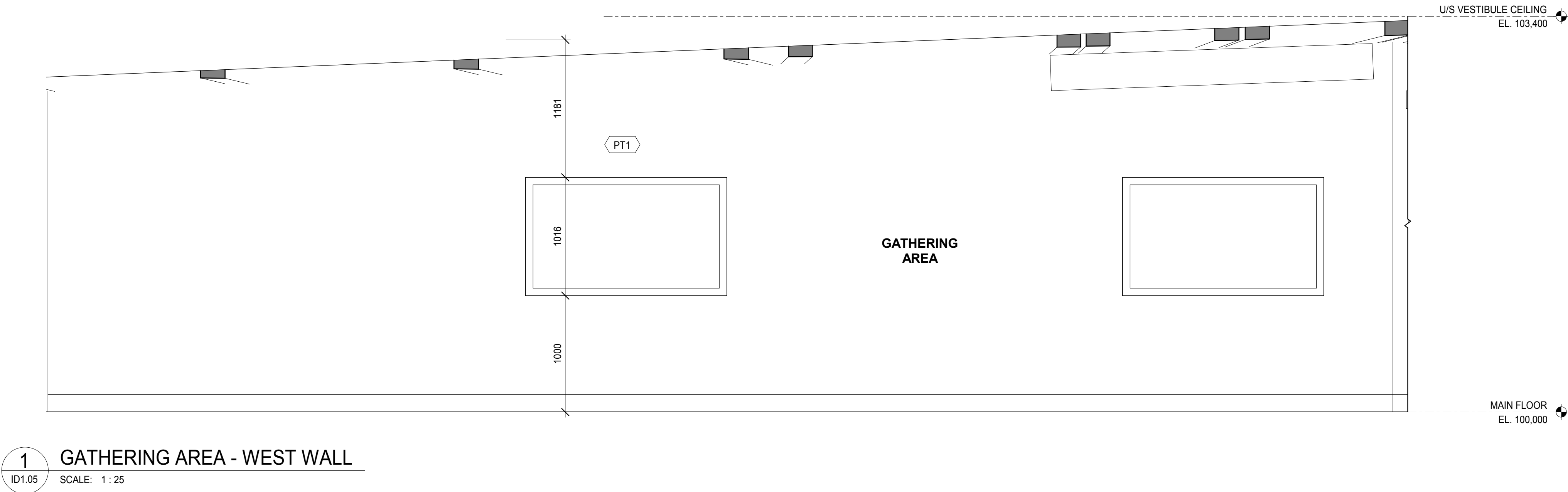
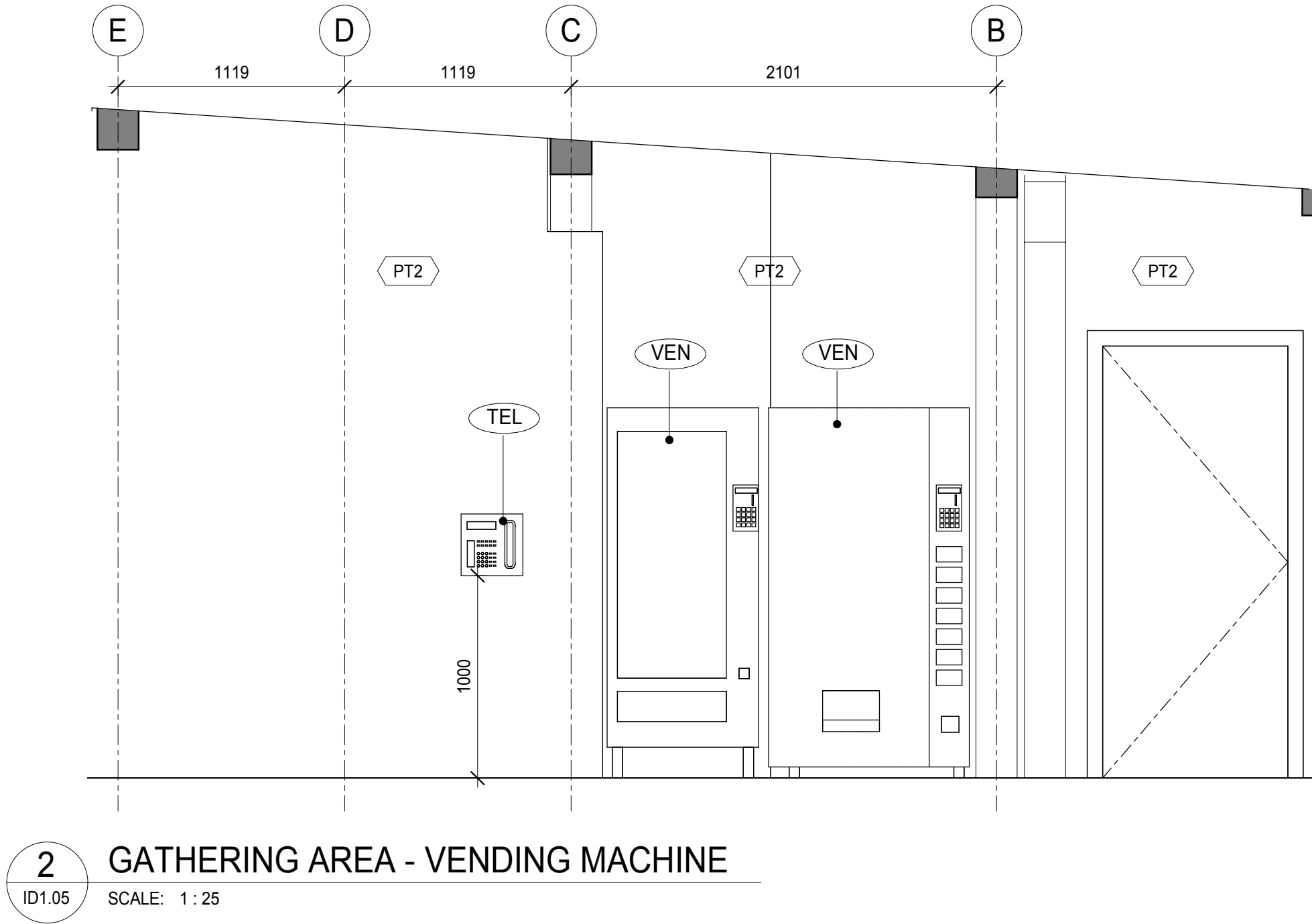
Client / client

Parks Canada

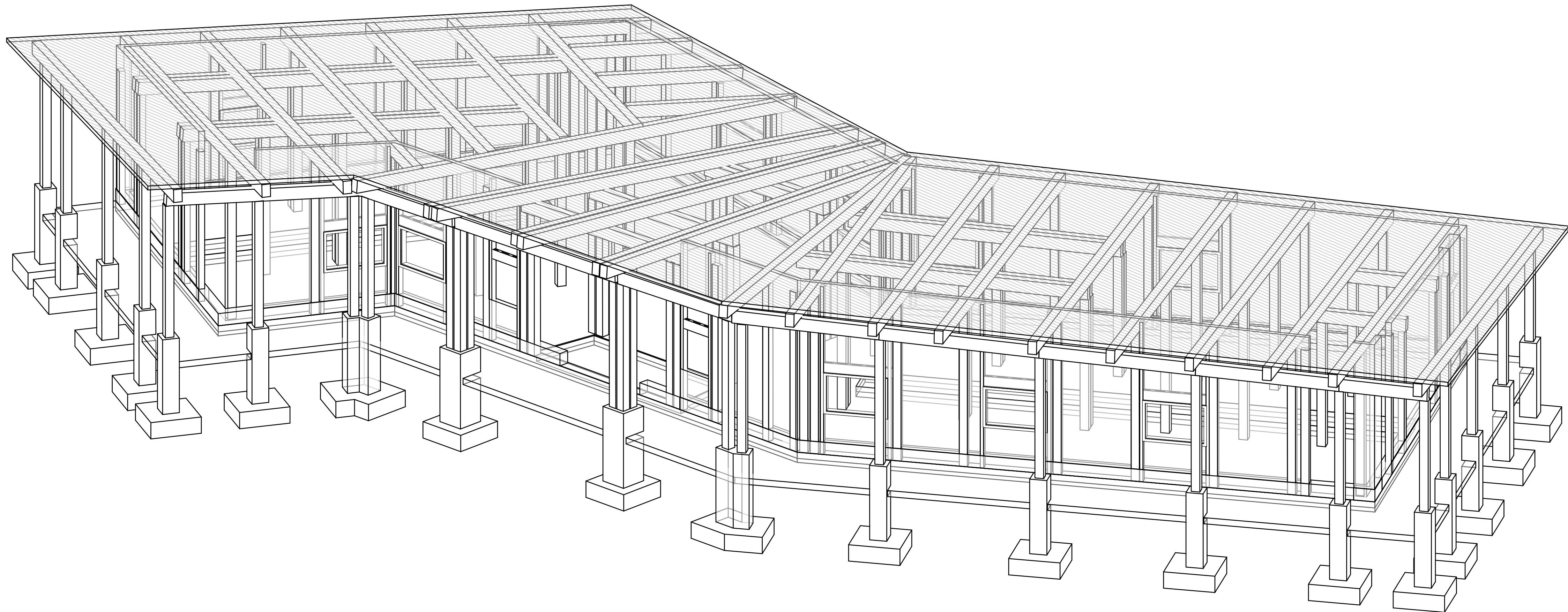
Drawing title / Titre du dessin

INTERIOR ELEVATIONS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	ID1.05	3







**STRUCTURAL FRAMING DESIGN INTENT**

THE DESIGN INTENT OF THE STRUCTURAL ROOF FRAMING MEMBERS INDICATED ON THE STRUCTURAL DRAWINGS IS TO SUPPORT A SINGLE-SLOPED ROOF DESIGN. THE SLOPED ROOF DESIGNS RESULTS IN VARIABLE HEIGHTS OF THE SUPPORTING COLUMNS AND WALLS THROUGHOUT THE BUILDING. THREE DIMENSIONAL SHOP DRAWINGS ARE TO BE PREPARED AND SUBMITTED WITH SUCH LEVEL OF DETAIL TO PROVE THAT THE STRUCTURAL FRAMING DESIGN INTENT IS ACHIEVED PRIOR TO FABRICATION, DELIVERY AND CONSTRUCTION.



**DO NOT SCALE DRAWINGS**

06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Project title/Titre du projet

**PCA - ROGERS PASS  
WASHROOM FACILITY**

Approved by/Approuve par

DP

Designed by/Concept par

DP

Drawn by/Dessine par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

**Parks Canada**

Drawing title / Titre du dessin

COVER SHEET

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
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CAI 752

S-000





## SCOPE LIMITATION BY RJC PERTAINING TO CONTRACTORS

THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL ENGAGE RJC DIRECTLY FOR THE FOLLOWING SCOPE ITEMS UNDER A SEPARATE CONTRACT BETWEEN THE INVOLVED CONTRACTOR AND RJC. THIS SCOPE OF WORK IS IN ADDITION TO RJC'S CONTRACT WITH THE OWNER. THESE ITEMS ARE RELATED TO MEANS AND METHODS OF CONSTRUCTION AND TO DEFICIENCIES. THE SCOPE OF ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- ON-SITE REWORK:
  - RE-DESIGN BY RJC OR REVIEW OF PROPOSED FIXES DESIGNED BY THE STEEL FABRICATOR OF STEEL CONNECTIONS CAUSED BY: OUT OF TOLERANCE OR MISSED ANCHOR BOLTS; OUT OF TOLERANCE OR MISSED EMBED PLATES; MISALIGNED STEEL CONNECTIONS.
  - SOLUTIONS FOR INCORRECTLY PLACED REINFORCING STEEL WHERE RE-DESIGN OR MODIFICATION BY RJC PROVE TO BE LESS WORK THAN TO RE-BUILD THE REINFORCING ACCORDING TO THE CONTRACT DOCUMENTS.
  - INVOLVEMENT RELATED TO FROZEN CONCRETE.
- SHOP DRAWINGS:
  - REVIEW OF SHOP DRAWINGS WHICH REQUIRES MORE THAN ONE ROUND OF "REVISE AND RE-SUBMIT".
  - REVIEW OF RE-SUBMITTED SHOP DRAWINGS ON WHICH REVISIONS HAVE NOT BEEN CLOUDED OR OTHERWISE SUITABLY IDENTIFIED.
- PROCESSING OF ELECTRONIC FILES SUCH AS CAD AND BUILDING INFORMATION MODELS FOR THEIR USE AS SHOP DRAWINGS, MODELING AND INTERFERENCE CHECKS.
- RE-DESIGN TO SUIT EQUIPMENT:
  - REDESIGN OF STRUCTURAL FRAMING AND STRUCTURAL DETAILS FOR THE BASE BUILDING STRUCTURE SHOWN ON THE CONTRACT DRAWINGS FOR MECHANICAL EQUIPMENT SUCH AS COILING TOWERS, AIR HANDLING UNITS AND OTHER ROOF TOP UNITS IF THE SIZE OR WEIGHT OR ATTACHMENT REQUIREMENTS OF THE UNIT PROPOSED BY THE CONTRACTOR IS DIFFERENT THAN THE UNIT USED FOR THE CONTRACT DOCUMENTS CAUSING RE-FRAMING OTHER THAN RE-DIMENSIONING.
- REVIEW OF STRUCTURAL CAPACITY OF BASE BUILDING ELEMENTS DUE TO CONTRACTOR MEANS AND METHODS OF CONSTRUCTION:
  - MOVING OF MECHANICAL EQUIPMENT, OR OTHER OPERATIONAL AND FUNCTIONAL COMPONENTS OF THE BASE BUILDING ACROSS FLOORS AND ROOF TO THEIR FINAL LOCATIONS.
  - OTHER CONSTRUCTION OR PERMANENT LOADS THAT EXCEED THE LOADING SPECIFIED ON THE CONTRACT DRAWINGS.
- CRANES AND MAN-HOISTS:
  - DESIGN OF CRANE TIE-IN CONNECTIONS TO THE BASE BUILDING STRUCTURE, CRANE FOOTINGS, SEPARATE OR INTEGRAL WITH THE BASE BUILDING FOOTINGS AND STRUCTURAL REVIEW OR MODIFICATIONS OF THE BASE BUILDING STRUCTURE DUE TO THESE.
  - REVIEW AND MODIFICATION OF THE BASE BUILDING STRUCTURE DUE TO LOADS FROM MAN-HOIST TIE-INS
- SEQUENCING:
  - REVIEW OF EFFECTS OF CONSTRUCTION SEQUENCE PROPOSED BY CONTRACTOR ON STABILITY OF THE BASE BUILDING STRUCTURE.
- SPECIFICATIONS, GENERAL NOTES, MOCK-UP REVIEW AND SITE REVIEW SPECIFIC TO SUBSTITUTING CAST-IN-PLACE CONCRETE BY SHOTCRETE.
- DESIGN AND FIELD REVIEW OF SEISMIC RESTRAINT FOR SECONDARY STRUCTURAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS INCLUDING MECHANICAL AND ELECTRICAL EQUIPMENT.
- CONTRACTOR REQUESTED SUBSTITUTION OF PRODUCTS OR MATERIALS REQUIRING STRUCTURAL REVIEW OR RE-DESIGN, INCLUDING POST-INSTALLED ANCHORS INTO CONCRETE.

## STRUCTURAL MOVEMENTS

THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION, AND THE FOLLOWING ARE ESTIMATES FOR THIS STRUCTURE. NON-STRUCTURAL COMPONENTS MUST BE DETAILED TO ACCOMMODATE THIS. DESIGN, DETAILING, AND FIELD REVIEW OF THESE NON-STRUCTURAL ELEMENTS IS BY OTHERS, AND NOT READ JONES CHRISTOFFERSEN LTD.

- DIFFERENTIAL VERTICAL MOVEMENTS BETWEEN ADJACENT COLUMNS AND BETWEEN ADJACENT COLUMNS AND WALLS = APPROXIMATELY 20 mm.
- VERTICAL DEFLECTION OF COLUMNS AND WALLS DUE TO SHRINKAGE AND CREEP = APPROXIMATELY 3.5 mm PER 3600 mm OF HEIGHT.
- VERTICAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = APPROXIMATELY 25 mm.  
DIFFERENTIAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = ± 16 mm.
- HORIZONTAL DRIFT DURING WIND AND EARTHQUAKE BETWEEN FLOORS:
  - ± 13 mm DRIFT WITHOUT DAMAGE TO NON-STRUCTURAL COMPONENTS.
  - ± 50 mm DRIFT WITHOUT COLLAPSE OF NON-STRUCTURAL COMPONENTS.
- MOVEMENT AT EXPANSION JOINTS:
  - ± 50 mm PERPENDICULAR
  - ± 50 mm PARALLEL
  - ± 25 mm VERTICAL

ALL STRUCTURES ARE ALSO SUBJECT TO CONSTRUCTION TOLERANCES. THIS SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS IN ADDITION TO THE ABOVE MOVEMENTS.

## FIELD REVIEW BY READ JONES CHRISTOFFERSEN (RJC)

- READ JONES CHRISTOFFERSEN PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE STRUCTURAL DRAWINGS. THIS REVIEW IS NOT A "FULL TIME" REVIEW BUT IS CONDUCTED WITH SUCH FREQUENCY AS RJC DEEMS APPROPRIATE TO OBSERVE VARIOUS STAGES OF THE WORK AND TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY READ JONES CHRISTOFFERSEN. FIELD REVIEW BY READ JONES CHRISTOFFERSEN IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE READ JONES CHRISTOFFERSEN GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. RJC SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.  
  
RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF RJC'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR OR SUBCONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR OF HIS OR HER RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- PROVIDE 48 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. FIELD REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH RJC.
- THE WORK TO BE REVIEWED SHALL BE GENERALLY COMPLETE.

## SHOP DRAWINGS

- AS PART OF FIELD SERVICES, RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.
- REVIEW OF SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAILED DESIGN INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS AND FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS, TECHNIQUES FOR CONSTRUCTION AND INSTALLATION, AND FOR CO-ORDINATION OF THE WORK OF ALL SUB-TRADES.
- SHOP DRAWINGS SHALL BE COMPLETE AND INCLUDE ANY REQUIRED SEALS FROM A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED PRIOR TO SUBMISSION.
- ALL SHOP DRAWINGS COMPRISING A REVISED SUBMISSION SHALL INDICATE THE REVISED CONTENT BY MEANS OF CLOUDDING OR OTHER SUITABLE MARKINGS.
- REFER TO "SCOPE LIMITATION BY RJC PERTAINING TO CONTRACTORS" IN THE GENERAL NOTES FOR ADDITIONAL SHOP DRAWING CONDITIONS.

## NON-STRUCTURAL ELEMENTS

- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF READ JONES CHRISTOFFERSEN LTD., WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
- EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
  - ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POSTS, CANOPIES, CEILINGS, MILLWORK, ETC.
  - LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
  - CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
  - ARCHITECTURAL PRECAST, PRECAST CLADDING.
  - SKYLIGHTS
  - MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS.
  - WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS.
  - ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS.
  - GLASS BLOCK AND ITS ATTACHMENTS.
  - BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
  - NON-LOAD BEARING MASONRY.
  - NON-STRUCTURAL CONCRETE TOPPINGS.
- SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO READ JONES CHRISTOFFERSEN LTD. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

## ABBREVIATIONS

A.B. ----- ANCHOR ROD	L.T.S. ----- LENGTH TO SUIT
A.E.S.S. ----- ARCHITECTURALLY EXPOSED	L.V. ----- LENGTH VARIES
AF ----- FACTORED AXIAL FORCE	L.W. ----- LONG WAY
ALT. ----- ALTERNATE	MAX. ----- MAXIMUM
ARCH. ----- ARCHITECTURAL	MECH. ----- MECHANICAL
B.L.L. ----- BOTTOM LOWER LAYER	M.F. ----- FACTORED MOMENT
BM. ----- BEAM	MIN. ----- MINIMUM
BOT. ----- BOTTOM	N.F. ----- NEAR FACE
B.U.L. ----- BOTTOM UPPER LAYER	N.I.C. ----- NOT IN CONTRACT
CANTIL. ----- CANTILEVER	N.S. ----- NEAR SIDE
CF ----- FACTORED AXIAL COMPRESSION FORCE	N.T.S. ----- NOT TO SCALE
C.I.P. ----- CAST IN PLACE	O.C. ----- ON CENTRE
C.J. ----- CONTROL JOINT	O.C. ----- ON CENTRE
CL. ----- CENTER LINE	O.F. ----- OUTSIDE FACE
CLR. ----- CLEAR	OPP. ----- OPPOSITE
COL. ----- COLUMN	PF. ----- FACTORED POINT LOAD
CONC. ----- CONCRETE	P.P. ----- PARTIAL PENETRATION
CONT. ----- CONTINUOUS	R.D. ----- ROOF DRAIN
C.P. ----- COMPLETE PENETRATION	RTN. ----- RETURN
CTRS. ----- CENTRES	R/W. ----- REINFORCED WITH
C.W. ----- COMPLETE WITH	S.D.L. ----- SUPERIMPOSED DEAD LOAD
DET. ----- DETAIL	SIM. ----- SIMILAR
D.L. ----- DEAD LOAD	S.L. ----- SNOW LOAD
D.O. ----- DO OVER - (DITTO)	SLS. ----- SERVICEABILITY LIMIT STATE
DP. ----- DEEP (E.G. DEPTH OF BEAM)	S.O.G. ----- SLAB ON GRADE
DWG. ----- DRAWING	SPEC. ----- SPECIFICATIONS
DWLS. ----- DOWELS	SST. ----- STAINLESS STEEL
EA. ----- EACH	STAG. ----- STAGGER
E.E. ----- EACH END	STIR. ----- STIRRUP
E.F. ----- EACH FACE	STL. ----- STEEL
EL. ----- ELEVATION	S.W. ----- SHORT WAY
ELEV. ----- ELEVATION	SYM. ----- SYMMETRICAL
ELEC. ----- ELECTRICAL	T&B. ----- TOP AND BOTTOM
EQ. ----- EQUAL	T&C. ----- TENSION AND COMPRESSION
E.S. ----- EACH SIDE	T&G. ----- TONGUE AND GROOVE
E.W. ----- EACH WAY	TF. ----- FACTORED AXIAL TENSION
EXT. ----- EXTERIOR	THK. ----- THICK
F.D. ----- FLOOR DRAIN	THRU. ----- THROUGH
FAR. ----- FAR FACE	T.J. ----- TIE JOIST
F.S. ----- FAR SIDE	T.L.L. ----- TOP LOWER LAYER
FTG. ----- FOOTING	TOP. ----- TOP
GA. ----- GAUGE	T.O.C. ----- TOP OF CONCRETE
GAL.V. ----- GALVANIZED	T.O.F. ----- TOP OF FOUNDATION
GL. ----- GRID LINE	T.O.S. ----- TOP OF SLAB/STEEL
H.1.E. ----- HOOK ONE END	T.O.W. ----- TOP OF WALL
H.2.E. ----- HOOK TWO ENDS	T.U.L. ----- TOP UPPER LAYER
H&V. ----- HORIZONTAL AND VERTICAL	TYP. ----- TYPICAL
HORIZ. ----- HORIZONTAL	U.LS. ----- ULTIMATE LIMIT STATE
H.S.C. ----- HORIZONTALLY SLOTTED CONNECTION	U.N.O. ----- UNLESS NOTED OTHERWISE
HT. ----- HEIGHT	U/S. ----- UNDERSIDE
I.F. ----- INSIDE FACE	VERT. ----- VERTICAL
INT. ----- INTERIOR	VI. ----- FACTORED SHEAR FORCE
JO. ----- JOINT	V.S.C. ----- VERTICALLY SLOTTED CONNECTION
LG. ----- LONG	W.P. ----- WORK POINT
L.L. ----- LIVE LOAD	WT. ----- WEIGHT

## DESIGN LOADS

- SPECIFIED UNIFORM LOADS - kPa

	LIVE LOAD	SUPERIMPOSED DEAD LOAD (S.D.L.)
A. ROOF* - BASED ON A GROUND SNOW LOAD OF -----	11.9	1.2
PLUS A RAIN LOAD OF -----	0.2	
AND AN IMPORTANCE FACTOR OF Is = 1.0 ULS, 0.9 SLS		
B. MAIN FLOOR (INTERIOR) -----	4.8	2.4

  
\* PLUS ADDITIONAL SNOW CORNICE AT ROOF EDGE: EQUAL TO THE ROOF SNOW IN DEPTH, EXTENDING HORIZONTALLY UP TO HALF THE ROOF SNOW DEPTH BEYOND THE ROOF EDGE, AND HANGING DOWN UP TO 1m.

CONTRACTORS CONSTRUCTION LOADS MUST NOT EXCEED THE ABOVE DESIGN LOADS. DESIGN LOADS MAY ONLY BE APPLIED AFTER CONCRETE REACHES ITS DESIGN STRENGTH.

SUPERIMPOSED DEAD LOADS (S.D.L.) ARE NON-STRUCTURE DEAD LOADS DUE TO ARCHITECTURAL TOPPINGS, FINISHES, PARTITIONS, ROOFING MATERIALS, PAVERS, SOIL, ETC.

STRUCTURAL DEAD LOADS (D.L.) ARE DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. THEY VARY WITH THE STRUCTURAL SYSTEM AND INCLUDE CONCRETE TOPPINGS ON STEEL DECK.

- UNLESS NOTED OTHERWISE, SPECIFIED CONCENTRATED LOADS ARE:

A. ROOFS ----- 1.3 kN

- WIND UPLIFT LOADS ON WOOD ROOFS SHALL BE 1 kPa NET FACTORED UNLESS NOTED OTHERWISE.

- SEISMIC AND WIND DESIGN:

THE LATERAL SYSTEM FOR THIS PROJECT CONSISTS OF SHEAR WALLS AND IS DESIGNED FOR THE FOLLOWING EARTHQUAKE FACTORS:

Sa (0.2) = 0.226	SITE CLASSIFICATION: SITE CLASS D
Sa (0.5) = 0.153	Ie = 1.0
Sa (1.0) = 0.085	Rd = 3.0
Sa (2.0) = 0.044	Ro = 1.7
Sa (5.0) = 0.018	

AND THE FOLLOWING WIND LOADS AND FACTORS:

q50 = 0.32 kPa, Iw = 1.0 ULS, 0.75 SLS.

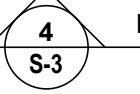
## LIST OF STRUCTURAL DRAWINGS

S-000	COVER SHEET
S-100	GENERAL NOTES AND TYPICAL DETAILS
S-101	GENERAL NOTES AND TYPICAL DETAILS
S-102	GENERAL NOTES AND TYPICAL DETAILS
S-103	GENERAL NOTES AND TYPICAL DETAILS
S-104	GENERAL NOTES AND TYPICAL DETAILS
S-201	MAIN FLOOR FRAMING PLANS
S-202	ROOF FRAMING PLANS
S-301	SECTIONS AND DETAILS

## DRAWINGS

- THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN. BY READ JONES CHRISTOFFERSEN LTD. THE DRAWINGS SHALL NOT BE USED FOR PRICING, COSTING, OR TENDER UNLESS SO INDICATED IN THE REVISION COLUMN. PRICING OR COSTING DRAWINGS ARE NOT COMPLETE AND ANY PRICES BASED ON PRICING OR COSTING DRAWINGS MUST INCLUDE ALLOWANCES FOR THIS.
- THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.

## GENERAL

- SECTION MARK SHOWN THUS  MEANS SECTION #4 ON DRAWING S-3.
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC., TO BE ENCASED IN CONCRETE.
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND ROOF ELEVATIONS, RECESSES, DRAINAGE SLOPES, ETC.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
- CONCRETE WORK SHALL CONFORM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.
- STRUCTURAL STEEL WORK SHALL CONFORM TO CSA S16 AND REFERENCED DOCUMENTS.
- FIRE RESISTANCE RATINGS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PRECISE LOCATION OF REQUIRED FIRE RESISTANCE RATINGS.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF RJC.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS; AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS, CONDUIT AND PIPING. PROVIDE FOR SAME.
- DEFINITIONS:
  - RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.
  - SPECIALTY STRUCTURAL ENGINEER: A STRUCTURAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT AND WHO IS RESPONSIBLE FOR THE DESIGN AND FIELD REVIEW OF:
    - STRUCTURAL ELEMENTS DESIGNED BY THE CONTRACTOR OR SUBCONTRACTORS, SUCH AS OPEN WEB STEEL JOISTS, PRECAST DOUBLE TEES, PRECAST PLANKS, STRUCTURAL STEEL CONNECTIONS, LIGHT WOOD FRAME ROOF TRUSSES, ETC.
    - SECONDARY STRUCTURAL ELEMENTS AND NON-STRUCTURAL ELEMENTS. SEE ALSO "NON-STRUCTURAL ELEMENTS" GENERAL NOTES.
  - CONTINUOUS: FULL TENSION SPLICE AND TENSION DEVELOPMENT LENGTH.
  - EMBEDMENT: UNLESS NOTED OTHERWISE COMPRESSION EMBEDMENT MEANS A COMPRESSION DEVELOPMENT LENGTH AND TENSION EMBEDMENT MEANS A TENSION DEVELOPMENT LENGTH AS PER CAN/CSA-A23.3 AND AS SHOWN ON THESE GENERAL NOTES DRAWINGS.
  - GENERAL CONTRACTOR: FOR THE PURPOSES OF THESE DRAWINGS, THE USE OF THE TERM "CONTRACTOR" OR "GENERAL CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE CO-ORDINATION OF TRADES AND SUBCONTRACTORS. THIS MAY BE THE GENERAL CONTRACTOR, OR A CONSTRUCTION MANAGER.

## DESIGN CODE

- THE COMPLETED BASE BUILDING STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2015.

## DO NOT SCALE DRAWINGS

06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Project title/Titre du projet

## PCA - ROGERS PASS WASHROOM FACILITY

Approved by/Approuvé par

DP

Designed by/Concept par

DP

Drawn by/Dessiné par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

## GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	S-100	





CONCRETE REINFORCEMENT

1. REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:
- |                                 |   |                       |
|---------------------------------|---|-----------------------|
| A. 10M AND LARGER (U.N.O.)      | - | CSA G30.18 GRADE 400R |
| B. WELDED WIRE REINFORCEMENT    | - | CSA G30.5 GRADE 400   |
| C. ALL REINFORCING THAT WILL BE | - | CSA G30.18 GRADE 400W |
| F. GALVANIZED REBAR             | - | ASTM A767             |

(NOTE: CSA G30.18 W GRADES MAY BE SUBSTITUTED FOR CSA G30.18 R GRADES)

2. UNLESS OTHERWISE NOTED CONCRETE COVER TO REINFORCEMENT SHALL BE:

- |  |       |   |
|--|-------|---|
| A. CONCRETE CAST AGAINST EARTH OR GROUND   | ----- | 75 mm   |
| B. CONCRETE WITH NO MEMBRANE   | ----- | 60 mm OR 2d AND EXPOSED TO CHLORIDES - EXPOSURE CLASS (WHICHEVER C-XL, C1 AND C3. |
| C. FORMED FINISHED CONCRETE EXPOSED TO WEATHER, EXPOSURE CLASS F1, F2, S1, S2 OR EARTH | ----- | 40 mm OR 1.5d (WHICHEVER IS GREATER)  |

NOTES:

LARGEST COVER REQUIRED GOVERNS.

SEE STRUCTURAL DRAWINGS FOR AREAS CLASSIFIED AS (C) or (D) ABOVE FOR WEATHER EXPOSURE.

3. DESIGNATION OF REINFORCING BARS:

- A. BARS SHOWN THUS ——— IN BOTTOM OF BEAMS OR SLABS OR IN FAR FACE OF WALL

BARS SHOWN THUS ————— IN TOP OF BEAMS OR SLABS OR IN NEAR FACE OF WALL

- B. STRAIGHT BARS: E.G. 6-10M4200 MEANS 6-10M BARS 4200 mm LONG. E.G. 15M3800 + 15M3200 ALT. @ 300 MEANS 1-15M3800 BAR THEN 1-15M3200 BAR SPACED 300 mm AWAY

- BENT BARS: E.G. 13-A20M4000 MEANS 13-20M BARS 4000 mm LG. H.1.E. 180°. E.G. 3-C25M3000 MEANS 3-25M BARS 3000 mm LONG H.1.E. 90°. (NOTE: BENT BAR LENGTHS INCLUDE HOOK DIMENSION)

4. DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT PRIOR APPROVAL OF THE RJC.

5. SUPPORT REINFORCING WITH CHAIRS, ACCESSORIES, OR REINFORCING BARS AS REQUIRED. BARS USED AS SUPPORT BARS SHALL BE CONSIDERED AS ACCESSORIES.

6. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN CONCRETE COVER AS SPECIFIED. ALL SUPPORTS AND BARS MUST BE TIED TOGETHER TO MAINTAIN REINFORCING STEEL SECURELY IN PLACE DURING CONCRETE PLACEMENT.

CONCRETE COLD WEATHER REQUIREMENTS

(SEE ALSO CSA A23.1, EXCEPT THE FOLLOWING MINIMUM REQUIREMENTS MUST ALSO BE MET)

1. FORECASTED AIR TEMPERATURE AT OR BELOW 5°C

- A. THE AGGREGATE OR MIXING WATER SHALL BE HEATED TO MAINTAIN A MINIMUM CONCRETE TEMPERATURE OF 10°C.
- B. CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE LESS THAN 5°C.
- C. CONTRACTOR SHALL BE PREPARED TO COVER SLAB IF UNEXPECTED DROP IN AIR TEMPERATURE SHOULD OCCUR.
- D. CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST 7 DAYS OR UNTIL THE CONCRETE REACHES 70% OF SPECIFIED STRENGTH.

2. FORECASTED AIR TEMPERATURE BELOW 2°C BUT NOT BELOW -4°C

(NOTE - FOR THESE CONDITIONS STRUCTURAL CONCRETE TOPPINGS ON METAL DECK SHALL SATISFY THE REQUIREMENTS OF 3).

- A. FORMS AND STEEL SHALL BE FREE FROM ICE AND SNOW.
- B. THE AGGREGATE OR MIXING WATER SHALL BE HEATED TO GIVE A MINIMUM CONCRETE TEMPERATURE OF 10°C AT POINT OF POUR.
- C. CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE OF LESS THAN 5°C.
- D. SLABS SHALL BE COVERED WITH CANVAS OR SIMILAR, KEPT A FEW INCHES CLEAR OF SURFACE.
- E. IN WINDY WEATHER, STOREY BELOW SLAB SHALL BE ENCLOSED.
- F. PROTECTION SHALL BE MAINTAINED FOR AT LEAST THE SPECIFIED CURING PERIOD.
- G. CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST THE SPECIFIED CURING PERIOD.

3. FORECASTED AIR TEMPERATURE BELOW -4°C

A, B, C, D, AS UNDER POINT 2.

- E. TEMPERATURE OF THE CONCRETE AT ALL SURFACES SHALL BE KEPT AT A MINIMUM OF 20°C FOR 3 DAYS, OR 10°C FOR 7 DAYS. CONCRETE SHALL BE KEPT ABOVE FREEZING TEMPERATURES UNTIL IT REACHES 70% OF ITS SPECIFIED STRENGTH.
- F. ENCLOSURE MUST BE CONSTRUCTED SO THAT AIR CAN CIRCULATE OUTSIDE THE OUTER EDGES AND MEMBERS.
- G. REINFORCING TO BE COVERED AND WARMED TO MAINTAIN ITS TEMPERATURE AT 0°C OR HIGHER AT THE TIME OF CONCRETE PLACEMENT.

CONCRETE CONSTRUCTION TOLERANCES

(TOLERANCES AS PER CSA A23.1, EXCEPT AS NOTED BELOW)

CLOSER TOLERANCES SHALL BE MAINTAINED WHERE ARCHITECTURAL DETAILS OR OTHERS REQUIRE.

WHERE ANY DEVIATION OCCURS, AND IT IS ACCEPTABLE TO THE ENGINEER AND ARCHITECT, THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENT OF OTHER BUILDING ELEMENTS TO ACCOMMODATE SUCH DEVIATION. COSTS FOR REMEDIAL WORK FOR DEVIATIONS NOT ACCEPTED SHALL BE BORNE BY THE CONTRACTOR.

1. VARIATION FROM THE PLUMB.

- A. IN THE LINES AND SURFACES OF COLUMNS, WALLS AND IN ARRISES: 0.25% OF HEIGHT (1 IN 400), MAXIMUM 40 mm OVER THE ENTIRE HEIGHT OF THE STRUCTURE.

ONLY ONE CURVATURE ALLOWED PER 3000 mm.

THE TOLERANCE GIVEN IS THE MAXIMUM VARIATION FROM A PLUMB LINE.

ALL MEASUREMENTS SHALL BE TO THE SAME SIDE OF THE PLUMB LINE.

- B. UNLESS SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS - THE TOLERANCES FOR EXPOSED CORNER COLUMNS, CONTROL JOINT GROOVES, AND OTHER CONSPICUOUS LINES SHALL BE:

0.125% OF HEIGHT (1 IN 800), MAXIMUM 20 mm.

ONLY ONE CURVATURE ALLOWED PER 6000 mm.

MAXIMUM VARIATION IN WINDOW BAYS 0.2% OF OPENING.

2. UNLESS SPECIFIED ELSEWHERE, FLOOR FINISHES SHALL BE CLASS A "INSTITUTIONAL AND COMMERCIAL FLOOR" ± 8 mm PER 3000 mm.

ONLY ONE CURVATURE ALLOWED IN 3000 mm.

CLOSER TOLERANCES MAY BE REQUIRED TO GIVE THE QUALITY OF FINISH FLOOR SURFACES CALLED FOR ELSEWHERE IN THE CONTRACT DOCUMENTS.

3. FOOTINGS:

- A. VARIATION IN DIMENSIONS IN PLAN:

MINUS ----- 10 mm

PLUS ----- 50 mm

- B. MISPLACEMENT OR ECCENTRICITY:

TWO (2) PERCENT OF THE FOOTING WIDTH IN THE DIRECTION OF MISPLACEMENT BUT NOT MORE THAN ----- 50 mm

- C. REDUCTION IN THICKNESS:

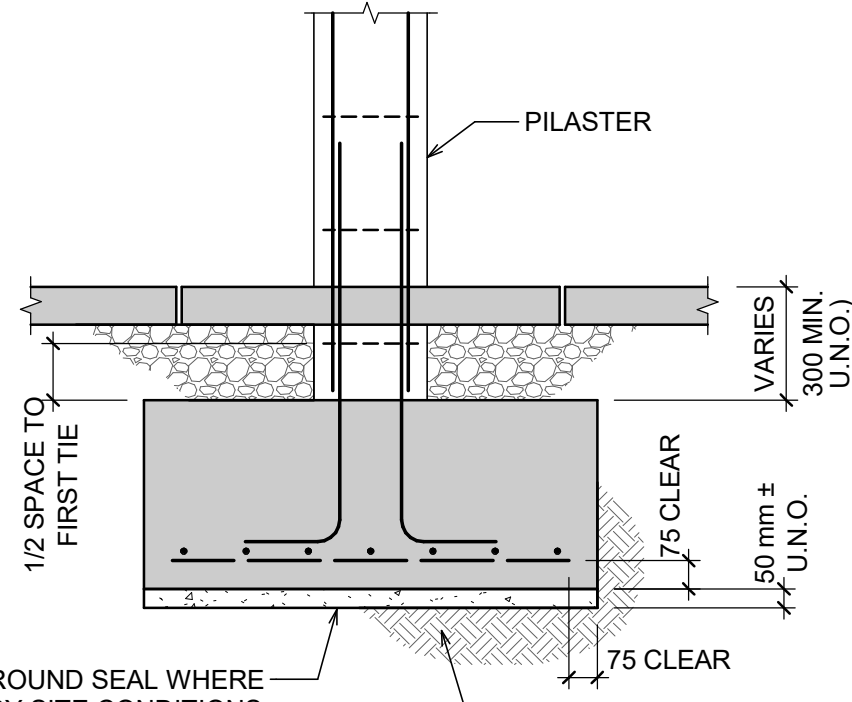
MINUS ----- 5% OF SPECIFIED THICKNESS

4. THE ABOVE REQUIREMENTS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY OF MEETING MORE RIGID REQUIREMENTS SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS OR AS REQUIRED BY EQUIPMENT SHOP DRAWINGS OR SPECIFICATIONS SUCH AS THOSE FOR ELEVATORS, ETC.

TYPICAL COLUMN FOOTING

EXCEPT AS NOTED:

- FOR SPLICE LENGTHS, SEE TABLES ON STRUCTURAL DRAWINGS.
- FOOTING SHALL BE CENTERED UNDER COLUMN/ PILASTER U.N.O.



CONCRETE

1. CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS OUTLINED IN CSA A23.1. CONCRETE IS TO BE CAST-IN-PLACE. THE USE OF SHOTCRETE FOR ANY ELEMENTS REQUIRES APPROVAL BY THE ENGINEER. ANY COSTS ASSOCIATED WITH CHANGES TO BE MADE TO THE CONTRACT DOCUMENTS TO ACCOMMODATE SHOTCRETE AS WELL AS ANY ADDITIONAL TESTING IS TO BE PAID FOR BY THE CONTRACTOR.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND THE OWNERS' SPECIFIED PERFORMANCE REQUIREMENTS. THE GENERAL CONTRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY CONTROL REQUIREMENTS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF CSA A23.1.

3. THE SUPPLIER SHALL MEET ALL CERTIFICATION AND DOCUMENTATION REQUIREMENTS AS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF CSA A23.1.

4. CONCRETE PROPERTIES:

GENERAL			
ELEMENT	COMPRESSIVE STRENGTH (MPa) 28 DAY U.N.O.	EXPOSURE CLASS	COMMENTS
FOOTINGS & PILASTERS	30 MPa (56 DAY)	N/ F2	-
SLAB ON GRADE (INTERIOR)	25 MPa	N	-
SLAB ON GRADE (EXTERIOR)	32 MPa	C-2	-

NOTE: USE F-2 EXPOSURE FOR EXTERIOR CONCRETE ELEMENTS. USE N EXPOSURE FOR INTERIOR CONCRETE OR ELEMENTS PROTECTED BY A MEMBRANE.

6. PORTLAND CEMENT SHALL BE TYPE GU UNLESS NOTED OTHERWISE.

7. CEMENT TYPE FOR EXPOSURE CLASSES S-1, S-2, AND S-3 SHALL BE AS OUTLINED IN CSA A23.1.

8. CONCRETE SHALL HAVE A UNIT WEIGHT OF 23±1 kN/m³ (145±5 PCF) UNLESS NOTED OTHERWISE.

9. THE CONCRETE PROPERTIES USED IN DESIGN ARE BASED ON 19 mm AGGREGATE, UNLESS NOTED OTHERWISE. ALL LOCATIONS FOR CONCRETE MIX DESIGNS WITH AGGREGATE SIZE SMALLER THAN 19 mm PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. ANY INCREASE IN REQUIRED CONCRETE STRENGTH OR INCREASE IN QUANTITY OF REINFORCEMENT DUE TO PROPOSED USE OF CONCRETE MIX WITH AGGREGATE SIZE SMALLER THAN 19 mm TO BE PAID FOR BY THE CONTRACTOR.

10. RECYCLED AGGREGATE IS NOT TO BE USED WITHOUT WRITTEN APPROVAL BY THE ENGINEER.

11. SLUMP AND AGGREGATE SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT, AND FINISHING REQUIREMENTS WITHOUT SEGREGATION WHILE MEETING ALL OWNER SPECIFICATIONS.

12. MAXIMUM WATER/CEMENT RATIO AND AIR CONTENT TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1.

13. CHLORIDE ION PENETRABILITY FOR EXPOSURE CLASS C-1 AND C-XL SHALL MEET THE REQUIREMENTS OF CSA A23.1.

14. AT THE REQUEST OF THE OWNER, THE SUPPLIER WILL FURNISH TEST DATA RESULTS (LESS THAN 3 MONTHS OLD) FOR EACH PROPOSED MIX DESIGN DEMONSTRATING THAT THEY MEET THE STRENGTH, DURABILITY, AND SHRINKAGE REQUIREMENTS SPECIFIED.

16. EDGES OF PILASTERS TO BE CHAMFERED 20 mm X 20 mm. ALL TOP EDGES OF EXPOSED SLABS, UPSTANDS AND CURBS TO BE TOOL-ED UNLESS NOTED OTHERWISE. SEE ALSO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR OTHER FINISH REQUIREMENTS.

17. NO CALCIUM CHLORIDE IS PERMITTED, IN ANY FORM, IN ANY CONCRETE MIX WITHOUT THE EXPRESS WRITTEN CONSENT OF READ JONES CHRISTOFFERSEN LTD.

18. CURING AND PROTECTION OF CONCRETE FOR HOT, COLD OR DRY WEATHER IS TO BE AS PER CSA A23.1 AS A MINIMUM. SEE ALSO "CONCRETE COLD WEATHER REQUIREMENTS" IN THE STRUCTURAL DRAWINGS.

EXCAVATIONS

1. DESIGN AND FIELD REVIEW OF EXCAVATION, SHORING, AND BACKFILL IS NOT DONE BY READ JONES CHRISTOFFERSEN.

FOUNDATIONS

1. FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING FACTORED BEARING RESISTANCE

- A. PAD FOOTINGS & SLAB ON GRADE: 225 kPa (ULS) AND 150 kPa (SLS)

2. BEARING SURFACES MUST BE APPROVED BY THE SOILS ENGINEER IMMEDIATELY BEFORE FOUNDATION CONCRETE IS PLACED. RJC IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.

3. UNLESS OTHERWISE SHOWN, CENTER FOOTINGS UNDER COLUMNS AND WALLS.

4. DOWELS SHALL BE PLACED BEFORE CONCRETE IS PLACED. TEMPLATES SHALL BE USED TO ENSURE CORRECT PLACEMENT OF DOWELS.

5. PROVIDE 50 mm GROUND SEAL UNDER FOOTINGS AS REQUIRED BY SOIL CONDITIONS.

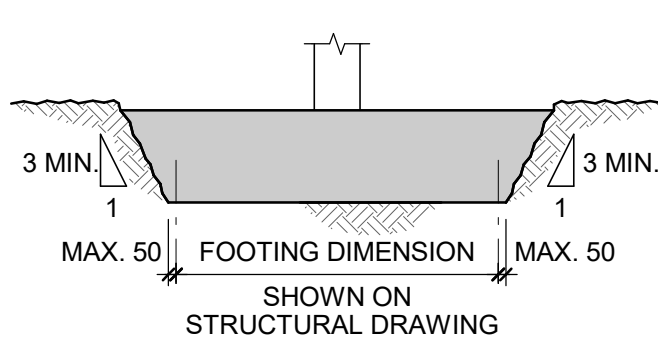
6. FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE ARCHITECT'S DRAWINGS.

7. FOOTINGS MAY HAVE TO BE LOWERED TO ACCOMMODATE MECHANICAL OR ELECTRICAL SERVICES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ELEVATIONS OF SAME. FOOTINGS ARE NOT TO BE UNDERMINED BY EXCAVATIONS FOR SERVICES, PITS, ETC.

8. FOOTING ELEVATIONS, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY. ARE NOT FINAL AND MAY VARY ACCORDING TO SITE CONDITIONS OR AS REQUIRED BY SERVICES. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE SOILS ENGINEER.
9. BEARING SURFACES MUST BE PROTECTED FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.

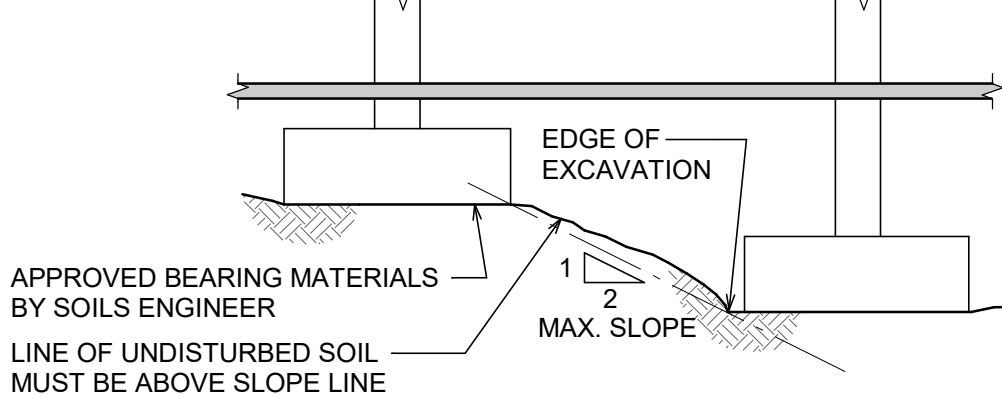
10. SUB-BASE DESIGN OF SOIL UNDER THE SLAB ON GRADE SHALL BE IN ACCORDANCE WITH THE SOIL REPORT.

11. CONCRETE PLACED UNDER WATER SHALL CONFORM TO CAN/CSA-A23.1.
12. FOOTINGS CAST DIRECTLY INTO EXCAVATIONS (WITHOUT SIDE FORMS) SHALL NOT BE LARGER THAN SHOWN BELOW:



TYPICAL FOOTING ADJACENT TO EXCAVATION

EDGE OF ADJACENT EXCAVATION FOR FOOTINGS, SUMPS, BASEMENT, SITE SERVICES, ETC.



DO NOT SCALE DRAWINGS

06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Parks Canada  
Parcs Canada

Project title/Titre du projet

PCA - ROGERS PASS  
WASHROOM FACILITY

Approved by/Approuve par

DP

Designed by/Concept par

DP

Drawn by/Dessine par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

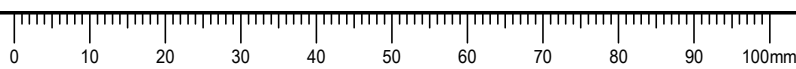
Drawing title / Titre du dessin

GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
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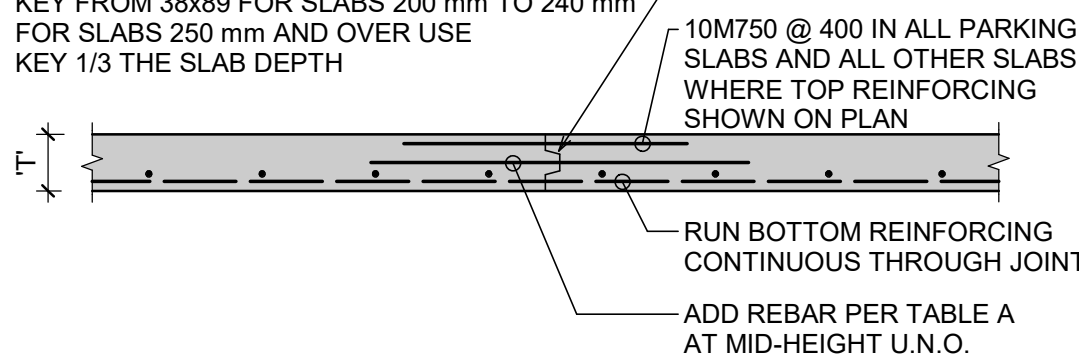




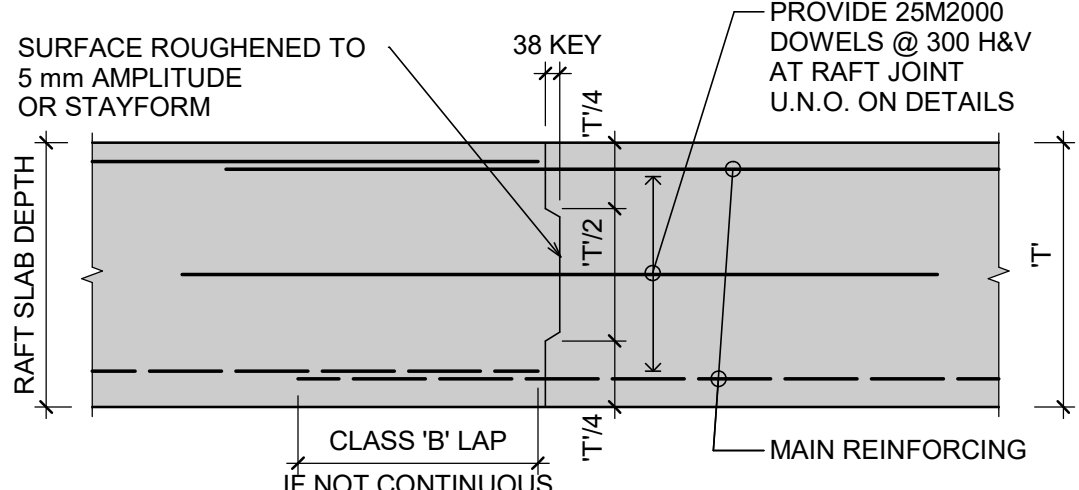
## CONSTRUCTION JOINTS THROUGH SLABS, SLAB BANDS, AND BEAMS

### LOCATIONS TO BE APPROVED BY RJC

KEY FROM 38x38 FOR SLABS UP TO 140 mm  
KEY FROM 38x64 FOR SLABS 150 mm TO 190 mm  
KEY FROM 38x89 FOR SLABS 200 mm TO 240 mm  
FOR SLABS 250 mm AND OVER USE  
KEY 1/3 THE SLAB DEPTH



### THROUGH SLABS



### THROUGH RAFT SLAB

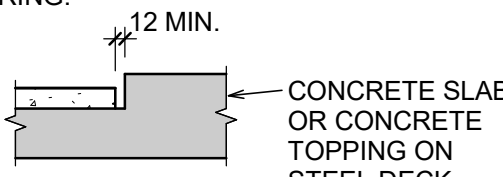
## NON-STRUCTURAL CONCRETE TOPPING ON CONCRETE SLABS

- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXTENT, THICKNESS, AND DETAILS.
- REINFORCE AS SHOWN ON STRUCTURAL OR ARCHITECTURAL PLANS AND SPECIFICATIONS, EXCEPT MINIMUM REINFORCING TO BE:

TOPPING THICKNESS	REINFORCING (TO BE PLACED AT MID-DEPTH)
UP TO 50 mm	1 SHEET OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300
75 mm	1 SHEET OF WWR 152 X 152 - MW13.3 X MW13.3 LAP 300 OR 2 SHEETS OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300
100 mm	2 SHEETS OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300 OR 10M @ 500 EACH WAY
125 mm	10M @ 400 EACH WAY

- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONTROL JOINTS AND EXPANSION JOINTS. DETAILS, JOINT SPACING AND PATTERN, UNLESS NOTED OTHERWISE, PROVIDE 25 mm DEEP SAWCUTS OR TOOLED JOINTS. MAXIMUM SPACING OF JOINTS IN EACH DIRECTION IS 3000 mm. IF SAWCUTS ARE USED, DO NOT CUT REINFORCING AND MAKE THE SAWCUTS WITHIN 12 HOURS OF POURING.

- PROVIDE 12 mm GAP (MIN.) AT EDGES TO ALLOW FOR SHRINKAGE AND THERMAL EXPANSION. SEE ALSO ARCHITECTURAL DETAILS AND REQUIREMENTS.



- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR JOINT FILLERS AND SLIP SHEETS, IF REQUIRED.

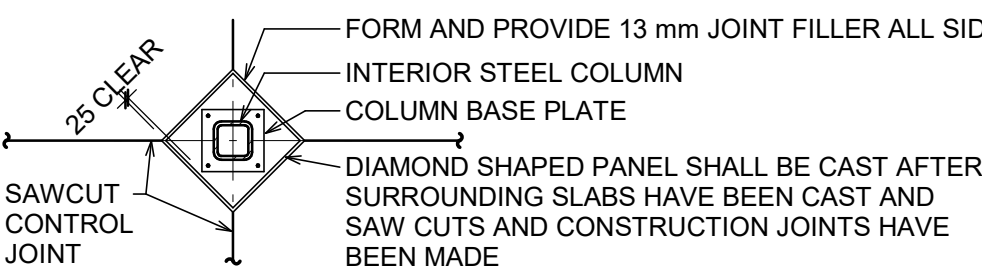
- FIELD REVIEW OF ARCHITECTURAL TOPPING DETAILS SUCH AS REINFORCING, JOINTS, JOINT SPACING, JOINT FILLER, SLIP SHEETS ETC., BY OTHERS, NOT BY RJC. CALL ARCHITECT TO SCHEDULE FIELD REVIEW OF THOSE ELEMENTS.

## SLAB ON GRADE REINFORCING AND CONTROL JOINTS

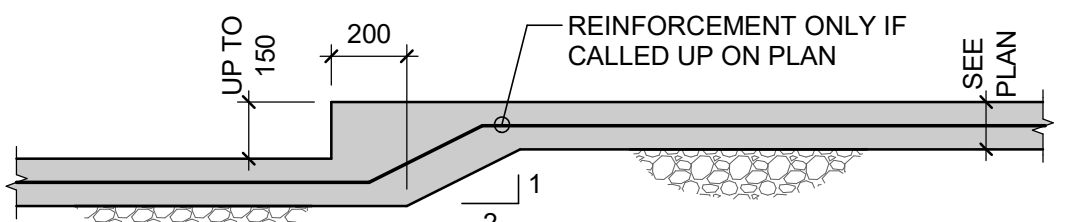
- SLAB ON GRADE SHALL BE PLACED ON SOIL CAPABLE OF SUSTAINING 25 kPa MINIMUM WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE SLAB ON GRADE AND ANY SPECIAL SUBBASE PREPARATIONS REQUIRED TO SUPPORT TEMPORARY SHORING OR ANY OTHER TEMPORARY CONSTRUCTION LOADS.
- REINFORCE SLAB ON GRADE AS PER THE TABLE BELOW. PROPERLY CHAIR REINFORCING SO THAT IT IS LOCATED 40 mm CLEAR FROM TOP OF SLAB.

SLAB ON GRADE THICKNESS	MINIMUM REINFORCING UNLESS NOTED OTHERWISE ON PLAN
LESS THAN 115 mm	WWR 152 X 152 - MW18.7 X MW18.7 (LAP 300 mm)
115 mm TO 175 mm	10M @ 400 EACH WAY
GREATER THAN 175 mm	15M @ 400 EACH WAY

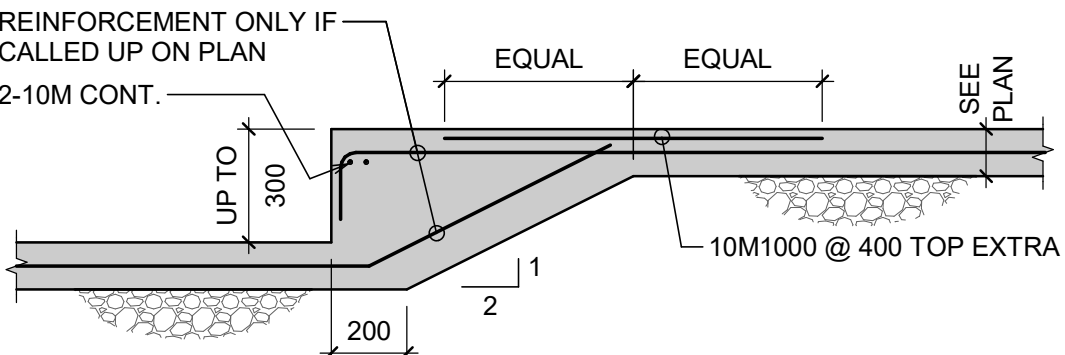
- REINFORCEMENT AS SPECIFIED IN NOTE 4 ABOVE TO CROSS AND LAP MINIMUM TENSION SPLICE LENGTH AT COLD JOINTS. FOR UNREINFORCED SLAB ON GRADE PROVIDE 38 mm X 38 mm DEEP CONTINUOUS SHEAR KEY IN SLAB ON GRADE FACE.
- UNLESS NOTED ELSEWHERE ON THE STRUCTURAL AND / OR ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, SPACE CONTROL JOINTS AT 4500 mm O/C MAXIMUM.
- SAWCUT JOINTS 4 mm WIDE AND 30 mm DEEP AS SOON AS PRACTICAL, BUT NO LATER THAN 12 HOURS AFTER PLACEMENT OF SLAB. USE EQUIPMENT THAT DOES NOT "RAVEL" THE EDGES OF THE CUT, SEAL AS REQUIRED. EXERCISE CAUTION TO AVOID EMBEDDED MECHANICAL AND ELECTRICAL SERVICES.
- UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, RUN ANY SLAB ON GRADE REINFORCEMENT THROUGH THE JOINTS.
- UNLESS NOTED OTHERWISE, SAWCUT DIAMOND PATTERN AROUND COLUMNS, 150 mm CLEAR OF COLUMNS.



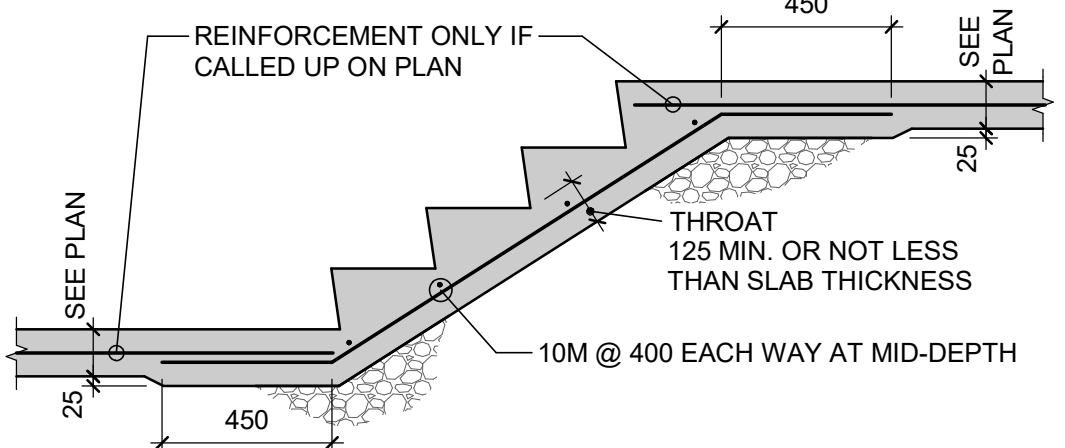
## TYPICAL SLAB ON GRADE STEP DETAILS - U.N.O.



### 150 mm MAXIMUM STEP



### 300 mm MAXIMUM STEP



## EMBEDMENT / DEVELOPMENT LENGTHS AND SPLICE LENGTHS

### BASED ON CSA A23.3

WHERE EMBEDMENT OR SPLICES ARE DIMENSIONED ON THE DRAWINGS, SUCH DIMENSION SHALL APPLY.

WHERE THE DRAWINGS INDICATE A COMPRESSION EMBEDMENT, IT IS A COMPRESSION EMBEDMENT LENGTH AND IT SHALL BE AS NOTED BELOW.

WHERE THE DRAWINGS INDICATE A TENSION EMBEDMENT, IT IS A TENSION EMBEDMENT LENGTH AND SHALL BE AS NOTED BELOW.

WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS CALLED FOR ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT, EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.

WHERE NO SPLICE OR SPLICE TYPE IS CALLED FOR ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE, EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.

IN TABLES BELOW, EMBEDMENT LENGTHS ARE SHOWN WITHOUT BRACKETS, AND SPLICE LENGTHS ARE SHOWN IN BRACKETS.

ALL LENGTHS ARE FOR  $f_y = 400$  MPa REBAR.

ALL TENSION SPLICE LENGTHS ARE CLASS "B" (1.3  $l_d$ ).

### COMPRESSION EMBEDMENT AND SPLICE LENGTHS

- COMPRESSION EMBEDMENT REFERS TO THE LENGTH REQUIRED TO PROVIDE THE "COMPRESSION DEVELOPMENT LENGTH" AS DEFINED IN CSA A23.3 CLAUSE 12.3.2.
- SPLICE LENGTH REFERS TO THE MINIMUM LAP LENGTH REQUIRED FOR A COMPRESSION SPLICE AS DEFINED IN CSA A23.3 CLAUSE 12.16.1.

CONCRETE STRENGTH	FUNCTION	REBAR DESIGNATION					
		10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	215	325	430	540	645	755
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)
25 MPa	EMBEDMENT	200	290	385	480	580	675
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)
30 MPa & GREATER	EMBEDMENT	200	265	355	440	530	620
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)

### TENSION EMBEDMENT AND SPLICE LENGTHS

- TENSION EMBEDMENT REFERS TO THE LENGTH REQUIRED TO PROVIDE A "TENSION DEVELOPMENT LENGTH" AS DEFINED IN CSA A23.3 CLAUSE 12.2.3.
- SPLICE LENGTH REFERS TO THE MINIMUM LAP LENGTH REQUIRED FOR A CLASS "B" TENSION SPLICE (1.3 $l_d$ ) AS PER CSA A23.3 CLAUSE 12.15.

### CASE 1 TENSION EMBEDMENT AND SPLICE CONDITIONS

TENSION EMBEDMENT AND SPLICE LENGTHS CONFORMING TO CSA A23.3 TABLE 12.1 (0.45  $k_1 k_2 k_3 k_4 f_y d_b / \sqrt{f_c}$ ) ARE TO BE AS PER THE FOLLOWING TABLE FOR:

- COLUMNS
- TWO WAY SLABS
- SEE ALSO NOTES ON TOP BARS.
- MEMBERS WHICH DO NOT SATISFY THE ABOVE CONDITIONS SHALL HAVE TENSION EMBEDMENTS AND SPLICES AS PER CASE 2 TABLE BELOW.

CONCRETE STRENGTH	FUNCTION	REBAR DESIGNATION					
		10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	325	485	645	1010	1210	1410
	(SPLICE)	(420)	(630)	(840)	(1310)	(1570)	(1835)
25 MPa	EMBEDMENT	300	435	580	900	1080	1260
	(SPLICE)	(390)	(565)	(750)	(1170)	(1405)	(1640)
30 MPa	EMBEDMENT	300	395	530	825	990	1155
	(SPLICE)	(390)	(515)	(685)	(1070)	(1285)	(1500)
35 MPa	EMBEDMENT	300	370	490	765	915	1065
	(SPLICE)	(390)	(475)	(635)	(990)	(1190)	(1385)

**NOTES:** - "TOP BAR" VALUES ARE 1.3 TIMES THE ABOVE LENGTHS. "TOP BAR" APPLIES TO HORIZONTAL REINFORCEMENT CAST WITH 300 mm OR MORE OF CONCRETE BELOW THE BAR.

### CASE 2 TENSION EMBEDMENT AND SPLICE CONDITIONS

TENSION EMBEDMENT AND SPLICE LENGTHS CONFORMING TO CSA A23.3 TABLE 12.1 (0.6  $k_1 k_2 k_3 k_4 f_y d_b / \sqrt{f_c}$ ) ARE TO BE AS PER THE FOLLOWING TABLE FOR MEMBERS NOT SATISFYING CASE 1 CONDITIONS AS SET OUT ABOVE. FOR EXAMPLE:

- BARS (EXCLUDING THE SPLICE) SPACED CLOSER TOGETHER THAN 2 BAR DIAMETERS.
- SEE ALSO NOTES ON TOP BARS

CONCRETE STRENGTH	FUNCTION	REBAR DESIGNATION					
		10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	430	645	860	1345	1610	1880
	(SPLICE)	(560)	(840)	(1120)	(1745)	(2095)	(2445)
25 MPa	EMBEDMENT	385	580	770	1200	1440	1680
	(SPLICE)	(500)	(750)	(1000)	(1560)	(1875)	(2185)
30 MPa	EMBEDMENT	355	530	705	1100	1315	1535
	(SPLICE)	(460)	(685)	(915)	(1425)	(1710)	(1995)
35 MPa	EMBEDMENT	325	490	650	1015	1220	1420
	(SPLICE)	(425)	(635)	(845)	(1320)	(1585)	(1850)

**NOTES:** - "TOP BAR" VALUES ARE 1.3 TIMES THE ABOVE LENGTHS. "TOP BAR" APPLIES TO HORIZONTAL REINFORCEMENT CAST WITH 300 mm OR MORE OF CONCRETE BELOW THE BAR.



### DO NOT SCALE DRAWINGS

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05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
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02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Project title/Titre du projet

### PCA - ROGERS PASS WASHROOM FACILITY

Approved by/Approuvé par

DP

Designed by/Concept par

DP

Drawn by/Dessiné par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

### GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
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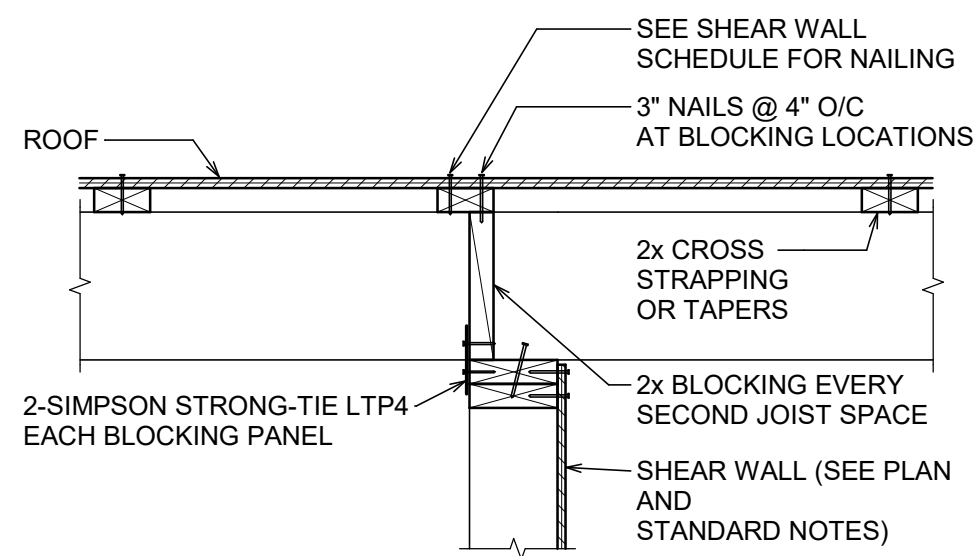
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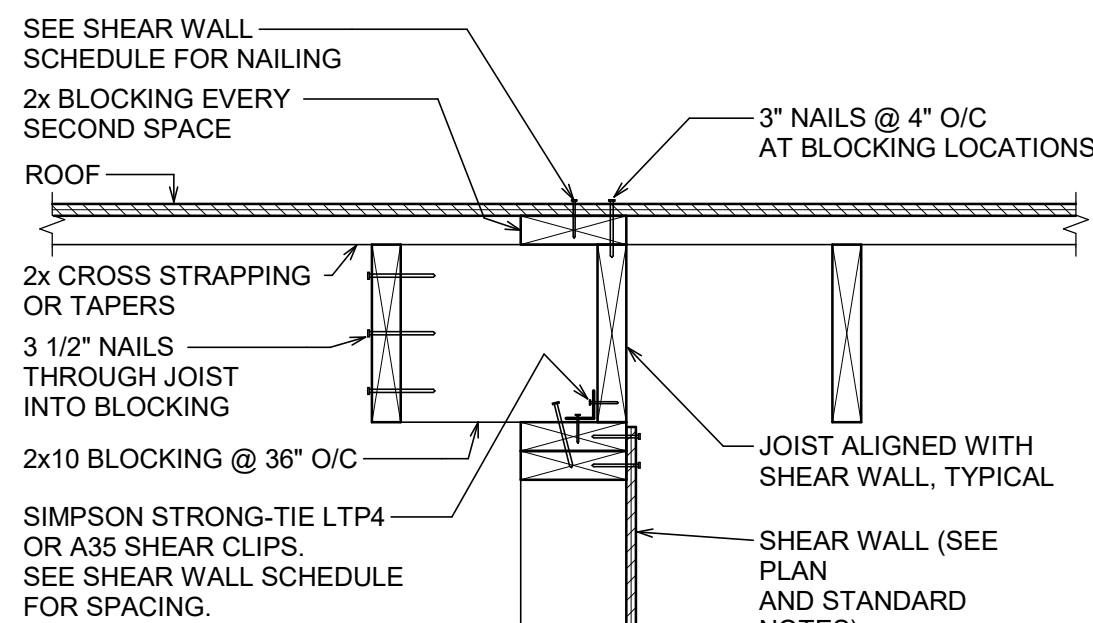




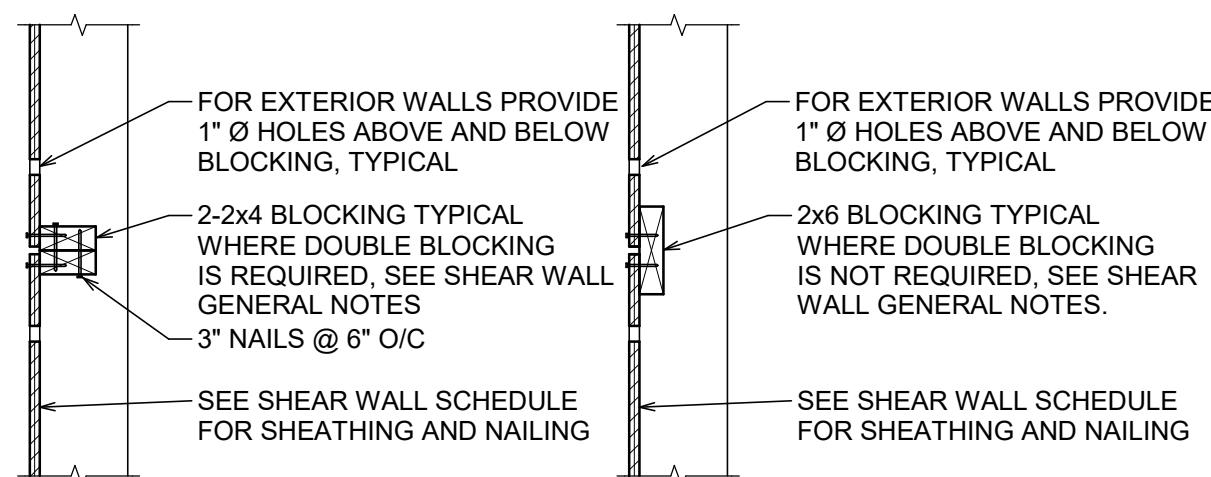




### TYPICAL SHEAR WALL TO SAWN LUMBER ROOF JOIST CONNECTION WHERE JOISTS RUN PERPENDICULAR TO WALL



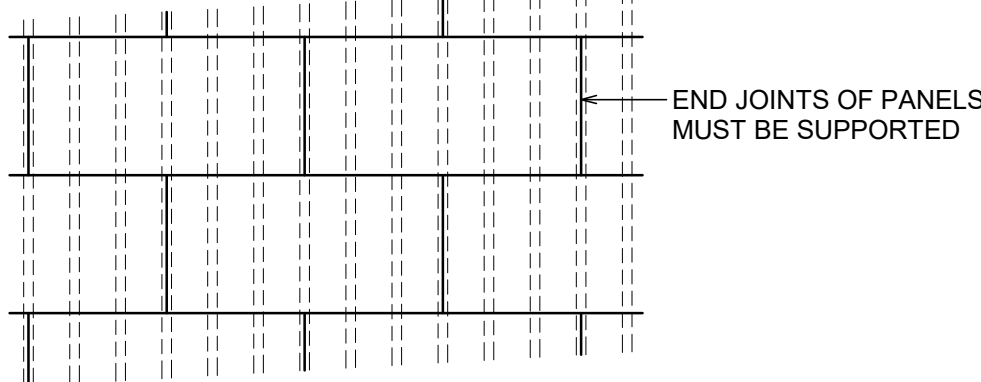
### TYPICAL SHEAR WALL TO SAWN LUMBER ROOF JOIST CONNECTION WHERE JOISTS RUN PARALLEL TO WALL



### TYPICAL SHEAR WALL BLOCKING DETAIL

### SHEATHING

- ROOF SHEATHING** 15.5 mm TONGUE AND GROOVE PLYWOOD.
  - EXTERIOR WALL SHEATHING** 15.5 mm PLYWOOD ON EXTERIOR SIDE TYP. SEE ALSO ARCHITECTURAL FOR ADDITIONAL SHEATHING REQUIREMENTS.
  - SHEAR WALL SHEATHING** SEE SHEAR WALL SCHEDULE FOR SHEATHING REQUIREMENTS AT SHEAR WALL LOCATIONS.
- LAY FLOOR AND ROOF SHEATHING WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE JOISTS. STAGGER THE JOINTS PARALLEL TO THE JOISTS.

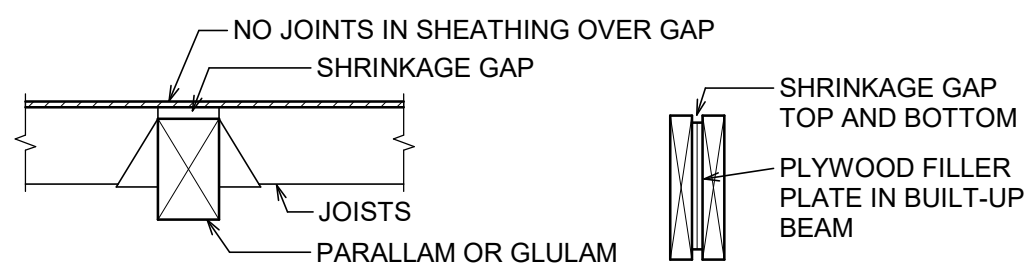


- DRYWALL OR SHEATHING ON LOAD BEARING WALLS OR SHEAR WALLS SHALL BE FASTENED DIRECTLY TO THE STUDS, WITHOUT THE USE OF RESILIENT METAL CHANNELS.

### SHRINKAGE

- FRAMING DETAILS SHALL ENSURE UNIFORM VERTICAL SHRINKAGE. ADJACENT PORTIONS OF STRUCTURE SHALL BE SUPPORTED ON ROUGHLY EQUIVALENT AMOUNTS OF HORIZONTAL TIMBER (JOISTS AND SILL PLATES). DO NOT MIX KILN-DRIED AND NON-KILN DRIED JOISTS IN ANY GIVEN FLOOR.

- FRAMING DETAILS AROUND NON-SHRINKING STRUCTURAL ELEMENTS (CONCRETE, STEEL, PARALLAMS, GLULAMS, MICROLAMS, PLYWOOD ETC.) SHALL TAKE INTO ACCOUNT THE SHRINKAGE OF THE TIMBER. EXAMPLES:

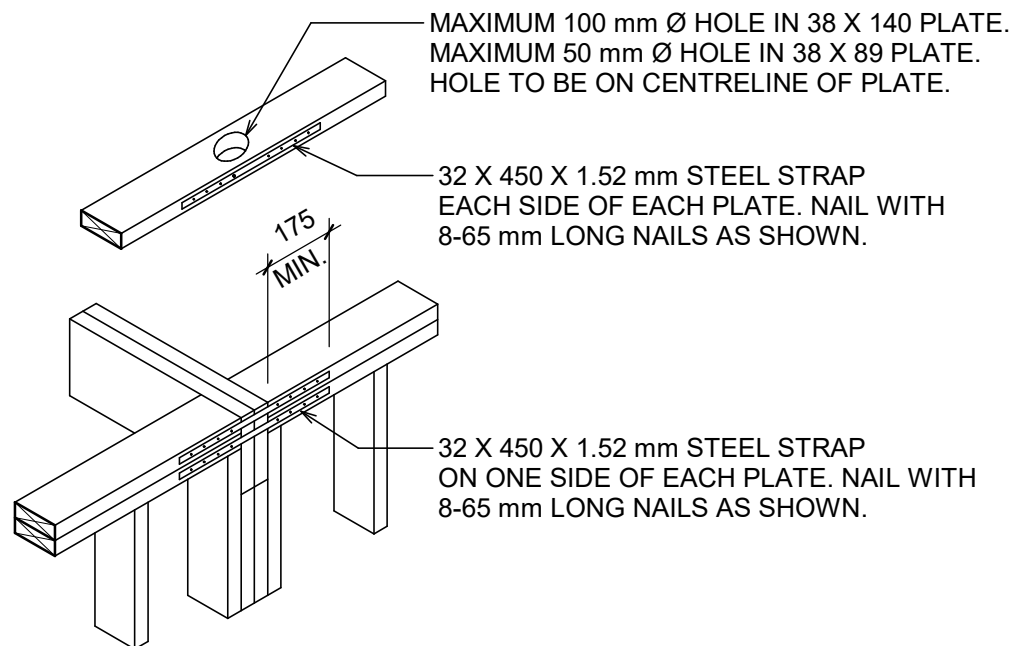


### WOOD DECKING

- WOOD DECKING TO BE COMMERCIAL GRADE DOUGLAS FIR KILN DRY PLANKS TO 19% MAXIMUM MOISTURE CONTENT.
- 65 x 133 AND 89 x 133, WOOD DECKING SHALL BE PRE DRILLED WITH 6 mm Ø HOLES AT 760 mm O/C FOR LATERAL SPIKING WITH DOUBLE TONGUE AND GROOVE.
- DECKING LENGTHS TO BE 1800 mm TO 6000 mm OR LONGER WITH A MINIMUM OF 90% OF THE PLANKS EXCEEDING 3000 mm AND A MINIMUM OF 50% OF THE PLANKS EXCEEDING 5000 mm. FOR SINGLE SPANS SHORTER THAN 3000 mm, USE PLANKS OF SAME LENGTH AND SPAN.
- INSTALL PLANK DECKS TO CAN/CSA-086 CONTROLLED RANDOM PATTERN. EXCEPT AS NOTED.
- PROVIDE MINIMUM OF ONE BEARING SUPPORT FOR EACH PLANK (EXCEPT FOR CANTILEVERS OR SIMPLE SPANS WHICH SHALL EXTEND OVER TWO SUPPORTS AND TWO SPAN CONTINUOUS WHICH SHALL EXTEND OVER THREE SUPPORTS). INSTALL SLOPING DECKS WITH TONGUES UP.
- STAGGER END JOINTS IN ADJACENT PLANKS MINIMUM OF 500 mm SEPARATE JOINTS IN SAME AREA BY AT LEAST TWO INTERVENING COURSES. NO END JOINTS IN FIRST HALF OF END SPANS. MINIMIZE JOINTS IN MIDDLE THIRD OF ANY SPAN.
- NAIL ALL 65 mm AND 89 mm PLANKS TOGETHER Laterally WITH 200 mm SPIRAL SPIKES THROUGH PRE DRILLED 6 mm HOLES AT 760 mm O/C.
- CONNECT EACH PLANK TO SUPPORTING MEMBERS AND TOP OF EXTERIOR SHEAR WALLS WITH ONE 125 mm NAIL, TOE-NAILED, AND ONE 150 mm NAIL, FACE-NAILED, EXCEPT AS NOTED ON PLAN.
- PLANKS PARALLEL TO SPAN OF SUPPORTING MEMBERS TO BE CONNECTED TO THE SUPPORTING MEMBERS WITH 150 mm NAILS FACE-NAILED AT 300 mm O/C, EXCEPT AS NOTED ON PLAN.

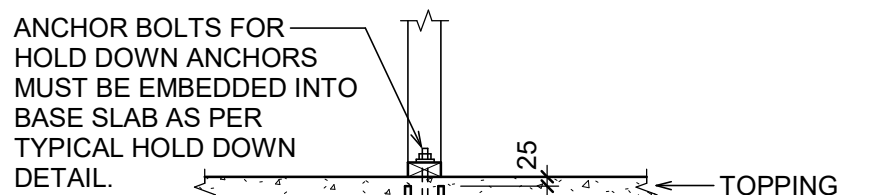
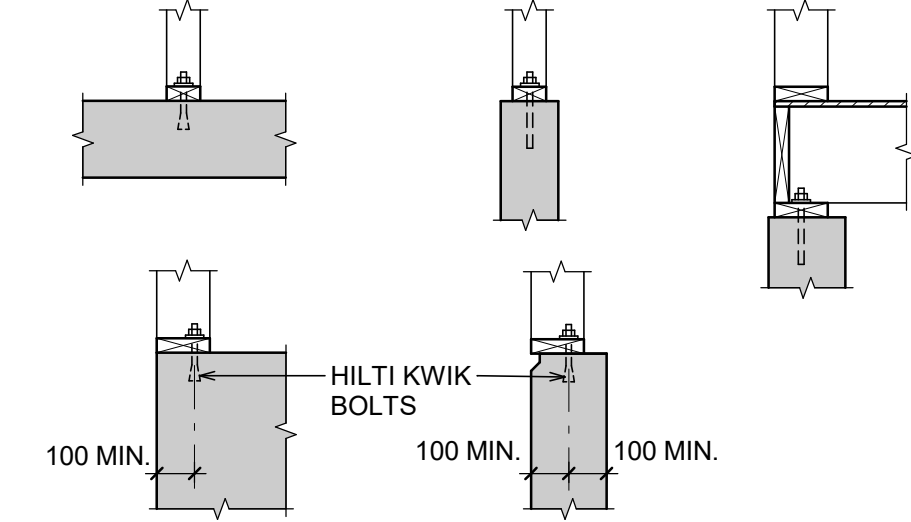
### WALLS CONT.

- ALL POSTS AND BUILT-UP STUD POSTS SHOWN ON ANY LEVEL SHALL BE CARRIED DOWN TO THE CONCRETE UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING BETWEEN JOISTS UNDER ALL POSTS AND BUILT-UP POSTS.
- ALL LOAD BEARING WALLS SHALL HAVE 2 CONTINUOUS TOP PLATES AND 1 CONTINUOUS BOTTOM PLATE. BEAMS OR HEADERS OVER OPENINGS IN WALLS SHALL BE DROPPED TO ALLOW THE TOP PLATES TO BE CONTINUOUS. WHERE 38 mm CONCRETE TOPPING IS USED ON THE FLOORS, PROVIDE 2 CONTINUOUS BOTTOM PLATES. DOUBLE PLATES SHALL BE SPLICED WITH A MINIMUM 600 mm STAGGER AND LAPPED AT CORNERS. TOP AND BOTTOM PLATES WHICH HAVE BEEN CORED OR WHICH ARE DISCONTINUOUS SHALL BE REINFORCED AS FOLLOWS:

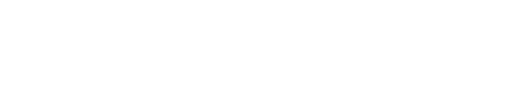
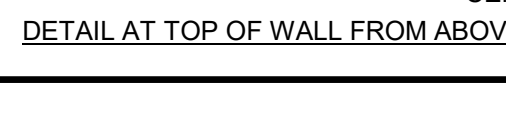
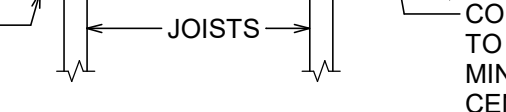
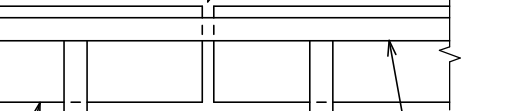
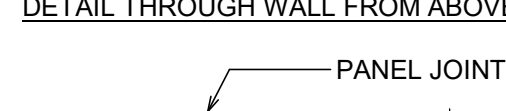
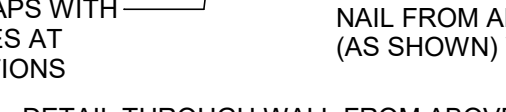
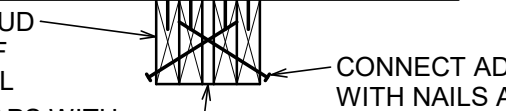
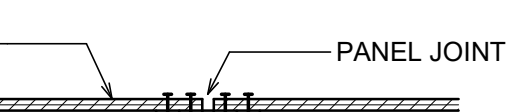
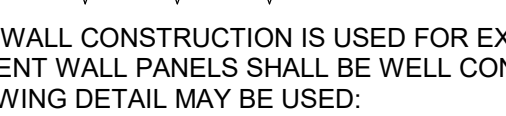
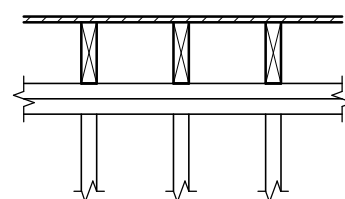


- WHERE PERMANENT SHEATHING IS NOT APPLIED TO STUDS PROVIDE BLOCKING AT 1000 mm O/C FOR 38 x 89 WALLS AND 600 mm O/C FOR 38 x 140 WALLS.
- FASTEN WOOD-FRAME STRUCTURE AT BASE BY BOLTING THE BOTTOM PLATE (SILL PLATE) TO THE CONCRETE WITH 13 mm Ø ANCHOR BOLTS AT 1200 mm O/C UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL HAVE A MINIMUM 125 mm EMBEDMENT AND A MINIMUM 75 mm PROJECTION ABOVE THE CONCRETE. THE ANCHOR BOLTS MAY BE CAST IN PLACE OR GROUTED INTO PREDRILLED HOLES WITH THE HILTI HIT SYSTEM. HILTI KWIK BOLTS WITH A 75 mm EMBEDMENT MAY BE USED WITH A 100 mm OR GREATER EDGE DISTANCE. NON-LOAD BEARING WALLS MAY BE FASTENED WITH 3 mm Ø POWER DRIVEN FASTENERS AT 400 mm O/C (MINIMUM 20 mm PENETRATION INTO CONCRETE). FULL WIDTH OF WALLS SHALL BEAR ON CONCRETE UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR ADDITIONAL ANCHORING REQUIREMENTS OF SHEAR WALLS.

NON-SHEAR WALL ANCHORAGE EXAMPLES:



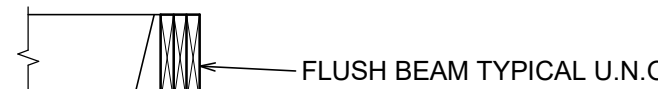
- SILL PLATES SHALL BEAR ON A LEVEL SURFACE. PROVIDE A LEVELLING BED OF MORTAR IF REQUIRED. PROVIDE A SILL GASKET UNDER SILL PLATES BEARING ON CONCRETE. SILL PLATES ON CONCRETE SEE NOTES ON "MOISTURE BARRIERS" FOR SILL GASKET REQUIREMENTS.
- WHERE THE SPACING OF JOISTS OR ROOF TRUSSES MATCHES THE SPACING OF THE STUDS IN THE SUPPORTING WALL (OR A MULTIPLE THEREOF), EACH JOIST OR TRUSS SHALL BEAR DIRECTLY OVER A STUD.



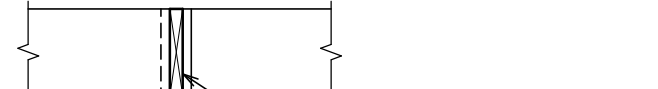
### BEAMS

- BUILT-UP BEAMS (I.E. 3-38 X 235) SHALL BE NAILED TOGETHER WITH 2 ROWS OF 75 mm NAILS, EACH ROW WITH NAILS AT 300 O/C. INDIVIDUAL MEMBERS MAY NOT BE SPLICED BETWEEN SUPPORTS. FOR ENGINEERED PRODUCTS, NAILING REQUIREMENTS OF LAMINATES SHALL BE SPECIFIED ON ENGINEERED SHOP DRAWINGS PROVIDED BY BEAM SUPPLIER.

- FLUSH BEAMS



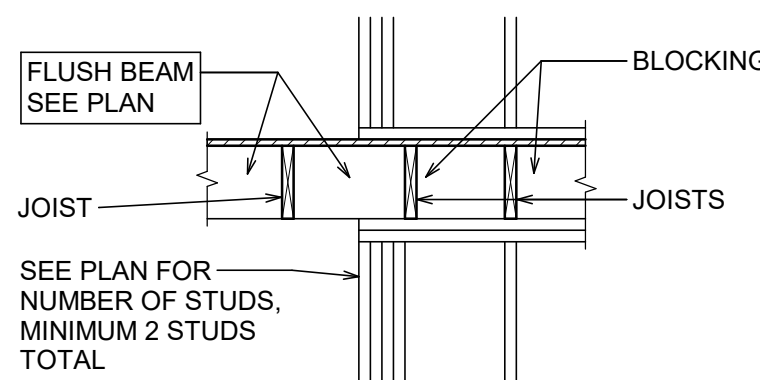
- DROPPED BEAMS



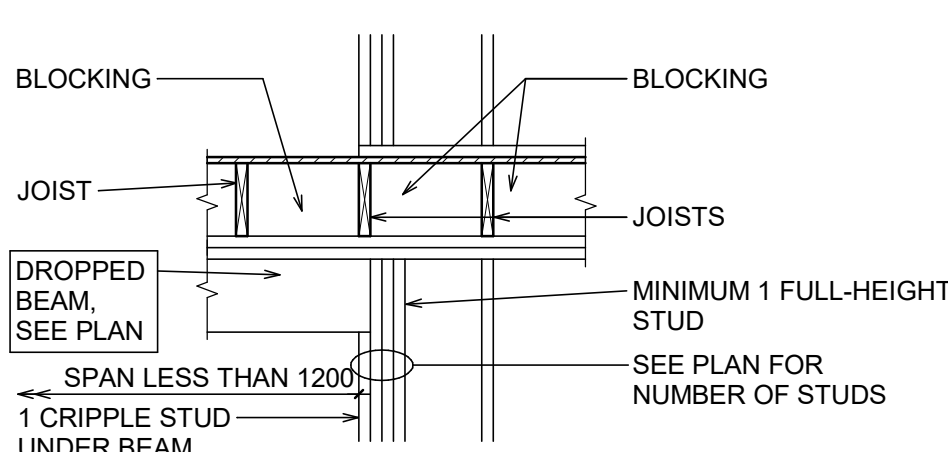
- U.N.O. ALL EXTERIOR WALL BEAMS, INTERIOR WALL BEAMS, AND DOOR HEADER BEAMS ARE DROPPED, UNLESS NOTED OTHERWISE ALL OTHER INTERIOR BEAMS ARE FLUSH.

- USE 2-38 x 235 BEAMS OVER ALL OPENINGS IN BEARING WALLS UNLESS NOTED OTHERWISE. BEAMS SHALL BE SUPPORTED AT EACH END AS SHOWN BELOW UNLESS NOTED OTHERWISE.

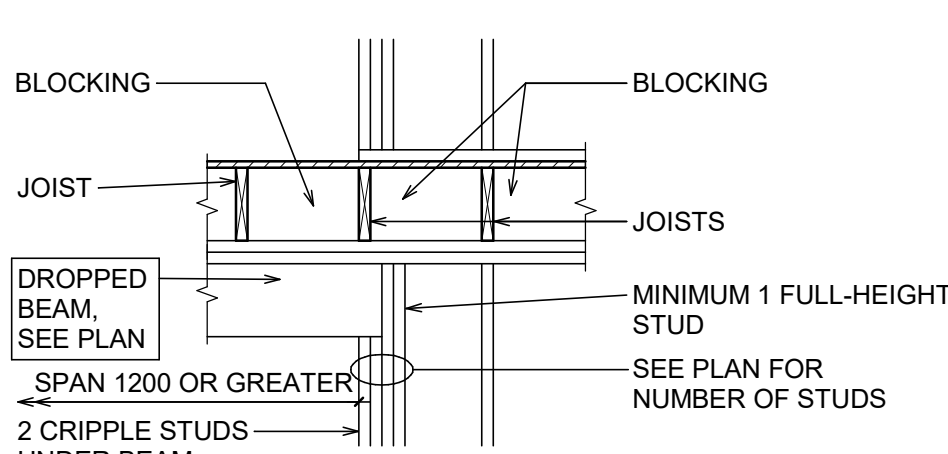
A. CASE 1 - FLUSH BEAM:



B. CASE 2 - DROPPED BEAM - OPENING LESS THAN 1200 mm:



C. CASE 2 - DROPPED BEAM - OPENING 1200 mm OR GREATER:



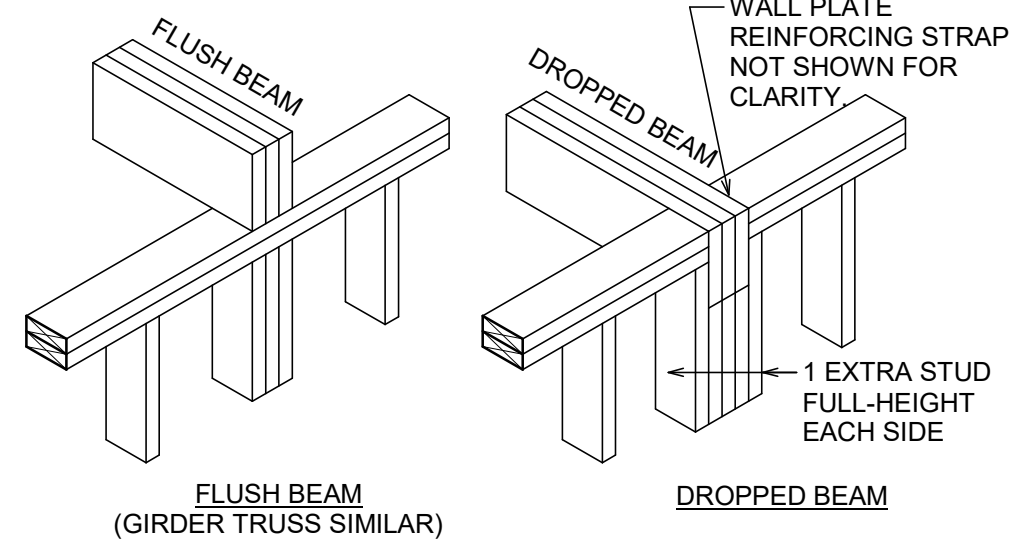
### WALLS

- LOAD BEARING WALLS: DENOTED ON PLAN THUS.
- ALL EXTERIOR WALLS ARE LOAD BEARING.

SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE WIDER STUDS ARE USED (I.E. BATHROOM PLUMBING WALLS).

- SEE TYPICAL DETAILS FOR LOAD BEARING WALL CONNECTIONS FLOORS U.N.O.

- UNLESS NOTED OTHERWISE, PROVIDE A BUILT-UP STUD POST AT THE ENDS OF ALL BEAMS AND GIRDER TRUSSES FRAMING INTO A WALL. THE BUILT-UP STUD POST SHALL MATCH THE WIDTH OF THE BEAM, AND THE STUD SIZE SHALL MATCH THOSE IN THE WALL U.N.O. ON PLAN.



- NAILING OF BUILT-UP STUD POSTS SHALL CONFORM TO THE FOLLOWING SCHEDULE. EACH STUD OF BUILT-UP POST SHALL BE NAILED.

STUD	NAILING
38 X 89	75 mm NAILS @ 220 mm O/C
38 X 140	2 - ROWS OF 75 mm NAILS mm @ 220 mm O/C
38 X 184	2 - ROWS OF 75 mm NAILS @ 220 mm O/C



### DO NOT SCALE DRAWINGS

Rev	Description	Date
06	ISSUED FOR TENDER	2019-01-10
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03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



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Parcs Canada

Project title/Titre du projet

### PCA - ROGERS PASS WASHROOM FACILITY

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Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

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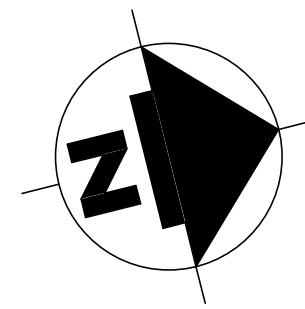
### GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du  
projet  
CAI 752

Sheet / Feuille  
S-104

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La Révision  
no.





**CONCRETE SLAB ON GRADE NOTE**

- 1) NEW 250 mm CONCRETE RAFT SLAB R/W 15M @ 250 mm E.W. TOP & BOT. ON 250 mm COMPACTED 25 mm CRUSHED GRAVEL BASE COURSE. SEPARATE SUB GRADE SOILS FROM GRANULAR FILL USING NON-WOVEN GEOTEXTILE. STRIP AND REMOVE EXISTING FILL MATERIAL FROM SITE AREA AT SITE TO BE APPROXIMATELY 1200 mm BELOW GRADE. GRANULAR BASE COURSE TO BE PLACED ON APPROXIMATELY 700 mm OF WELL COMPACTED ENGINEERED FILL FOUNDED ON SUITABLE MATERIAL. PROOF ROLL EXCAVATION, REMOVE SOFT AREAS AND REPLACE WITH ENGINEERED FILL PRIOR TO SUBGRADE PREPARATION. PREPARATION AND COMPACTION OF BASE, SUB BASE AND ENGINEERED FILL TO BE REVIEWED BY GEOTECHNICAL ENGINEER PRIOR TO POURING CONCRETE. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION REQUIREMENTS.

250 SLAB ON GRADE RAFT,  
REFER TO NOTE ABOVE

125 INFILL SLAB  
R/W 10M @ 400  
BOT. E.W.

10M1800 @ 300 AT MID-  
DEPTH OF SIDEWALK SLAB

PROVIDE SLAB RECESS  
FOR FLOOR GRILL AT  
ENTRY

150 SIDEWALK SLAB R/W  
10M @ 300 BOT. E.W.  
REINFORCEMENT TO RUN  
CONT. THROUGH  
PILASTERS

**1 MAIN FLOOR FRAMING AND FOUNDATION PLAN**  
1:100

**2 MAIN FLOOR FRAMING AND FOUNDATION DIMENSION PLAN**  
1:100

**CONCRETE NOTES**

- ALL EXPOSED CONCRETE IS CLASSIFIED AS ARCHITECTURALLY EXPOSED CONCRETE. REFER TO ARCHITECTURAL & LANDSCAPE DRAWINGS FOR FINISH REQUIREMENTS.
- CONSTRUCTION JOINTS AND SAW CUTS ARE ONLY PERMITTED WHERE INDICATED ON THE DRAWINGS.
- ALL CONCRETE TO BE WET CURED FOR 10 DAYS MINIMUM.
- NOTE THAT CONCRETE RAFT SLAB IS A HEATED SLAB. COORDINATE HEATING LINE REQUIREMENTS WITH SLAB REINFORCEMENT. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- PRE-POUR MEETING IS REQUIRED FOR ALL TRADES AND CONSULTANTS.
- SJ REFERS TO "SLAB CONTROL JOINT", REPRESENTED AS: ----- REFER TO GENERAL NOTES FOR DETAILS.
- REFER TO DETAIL 11/S301 FOR TYPICAL CONCRETE CURB AT WALL SECTIONS

**SHEAR WALL NAILING SCHEDULE**  
**SW1**

SHEATHING	15.5 mm PLYWOOD EACH SIDE OF WALL
NAILING	75 mm NAILS @ 75 mm O/C
END POSTS	5 PLY 38x140
SILL ANCHORS	3/4" @ 1200 O/C
STUDS	D.FIR-L SELECT @ 400 O/C

**CONCRETE PILASTER SCHEDULE**

MARK	SIZE	REINFORCING
CP1	406x406	4-15M VERT. H.1.E. 10M TIES @ 160
CP2	655x655	12-15M VERT. H.1.E. 10M TIES @ 160

**PAD FOOTING SCHEDULE**

MARK	SIZE	REINFORCING
PF1	1200 X 1200 X 400 DEEP FOOTING	5-15M BOT. E.W.
PF2	1200 WIDE X 400 DEEP FOOTING REFER TO PLAN FOR LENGTH	5-15M BOT. E.W.

**DIMENSIONAL LUMBER BEAM SCHEDULE**

MARK	SIZE	NAILING
2DL1	2-PLY 38x235	2 ROWS OF 3" NAILS. EACH ROW WITH NAILS AT 12" O/C

**ROUGH SAWN TIMBER BEAM SCHEDULE**

MARK	SIZE	NAILING
TB1	203x305mm D.FIR-L NO. 1 FULL ROUGH	REFER TO DRAWING S-202

**ROUGH SAWN TIMBER POST SCHEDULE**

MARK	SIZE	DESCRIPTION
C1	203x203 D.FIR-L NO.1 FULL ROUGH	SINGLE POST
C2	203x203 D.FIR-L NO.1 FULL ROUGH	GROUP OF TWO
C4	203x203 D.FIR-L NO.1 FULL ROUGH	GROUP OF FOUR

**BUILT-UP LUMBER POST SCHEDULE**

MARK	SIZE	NAILING
P1	5-PLY 38x140 D.FIR-L SELECT	REFER TO GENERAL NOTES
P2	2-PLY 38x140 D.FIR-L SELECT	REFER TO GENERAL NOTES

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Client / client



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**PCA - ROGERS PASS  
WASHROOM FACILITY**

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DP

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**Parks Canada**

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MAIN FLOOR FRAMING PLANS

Project No. / No. du  
project

CAI 752

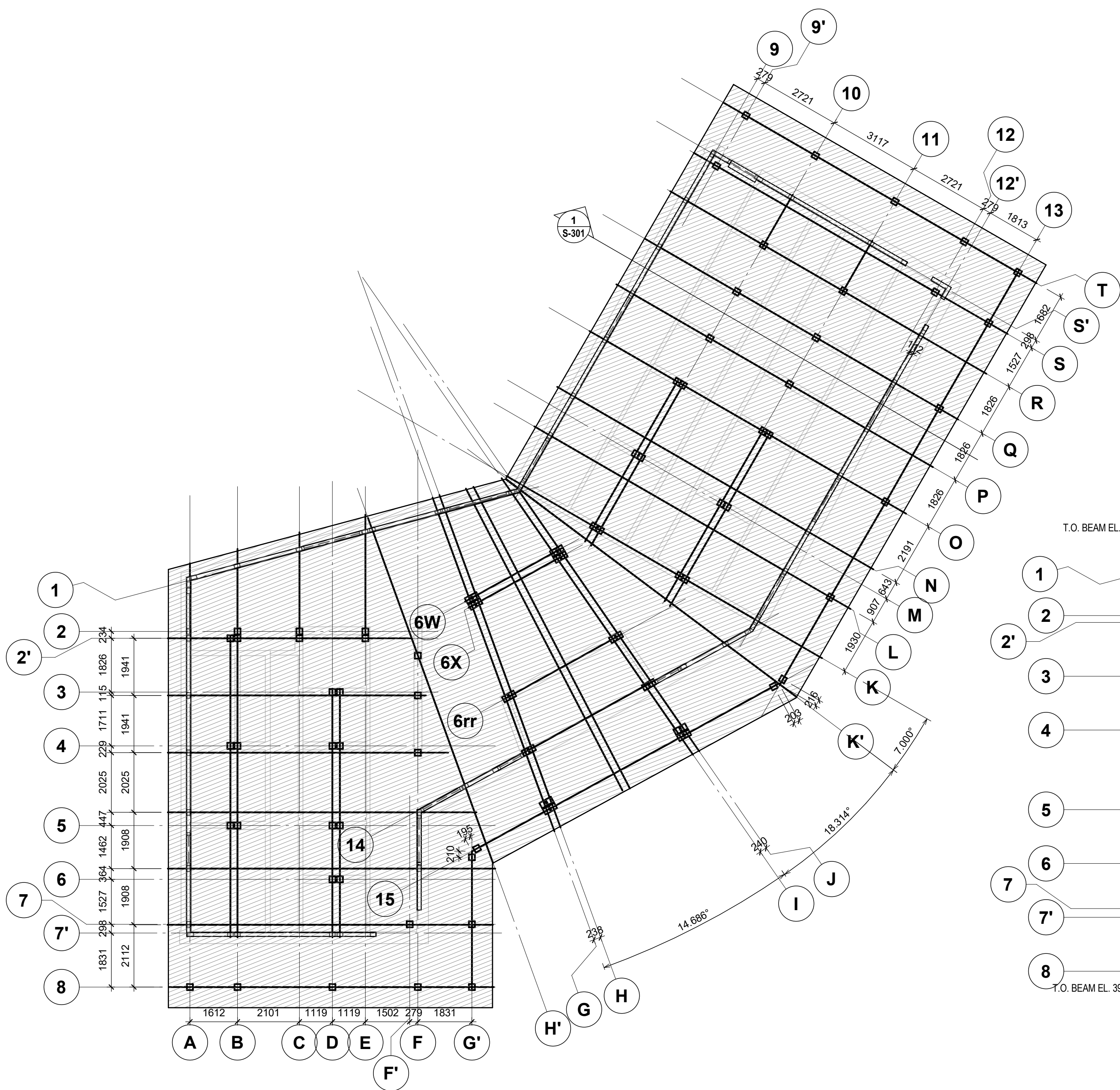
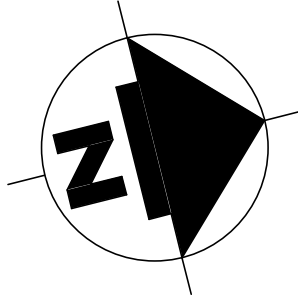
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S-201

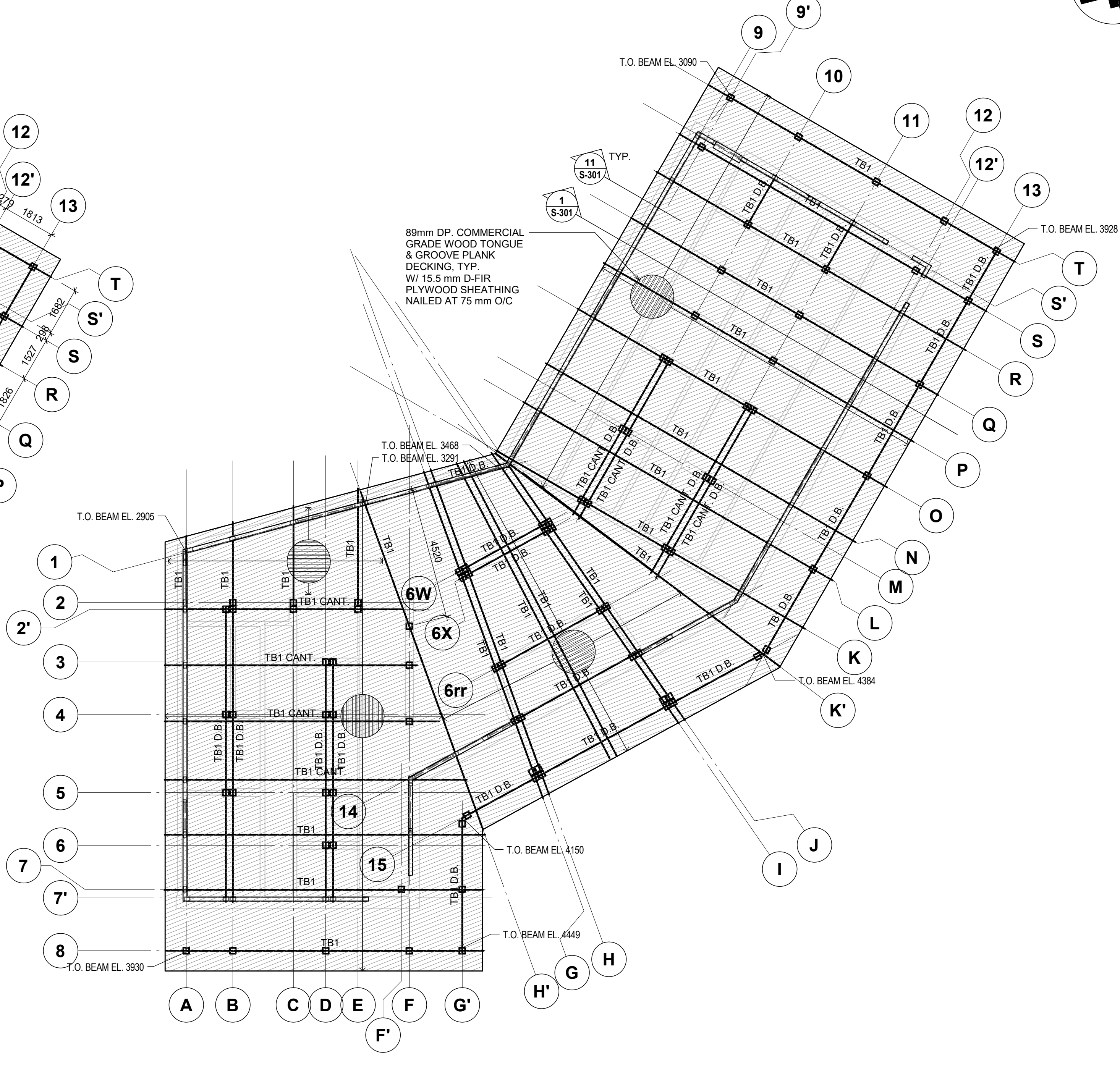
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La Révision  
no.







ROOF FRAMING DIMENSION PLAN  
 1 : 100



ROOF FRAMING PLAN  
 1 : 100

ARCHITECTURALLY EXPOSED TIMBER NOTES

- ALL VISUALLY EXPOSED WOOD ELEMENTS ARE CLASSIFIED AS "ARCHITECTURALLY EXPOSED" TIMBER.
- DUE TO THE VISUALLY EXPOSED NATURE OF THESE ELEMENTS CARE AND ATTENTION TO THE PROTECTION OF THE EXPOSED FINISH IS A REQUIREMENT OF THE PROJECT DURING TRANSPORTATION, STORAGE, HANDLING AND ERECTION AGAINST DAMAGE AND MOISTURE.
  - FINISH OF WOOD GRAIN TO BE MILLED, SANDED AND ROLLED USING A NYLON WHEEL TO ENHANCE THE NATURAL GRAINING AND REMOVE RESIDUAL MARKINGS FROM THE SAW MILLING PROCESS, GRADING STAMPS, LIFTING, TRANSPORTATION, AND THE SAW BLADE ITSELF.
  - KILN DRY VISUALLY EXPOSED TIMBER ELEMENTS AND STORE IN CONTROLLED ENVIRONMENT PRIOR TO CONSTRUCTION TO CONTROL SPLITTING, CHECKING, AND WARPING AND PROTECT THE MATERIALS DURING CONSTRUCTION FROM MOISTURE AND DAMAGE.
  - SUBMIT A MOCKUP OF THE FINISHED WOOD BEAM AND COLUMN COMPLETE WITH CONNECTION HARDWARE FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE AND DEPARTMENTAL REPRESENTATIVE PRIOR TO PRIOR TO FABRICATION, DELIVERY AND CONSTRUCTION OF THE VISUALLY EXPOSED TIMBER ELEMENTS.
  - APPLY TWO (3) COATS OF SHOP APPLIED CLOVERDALE 59314 WATERBORNE ALKYD VARNISH (OR APPROVED EQUIVALENT) ON ALL VISUALLY EXPOSED MEMBERS, WITH A TRIPLE COAT ON THE END GRAIN.
  - APPLY ANCHORSEAL II WAX-BASED EMULSION SEALER (OR APPROVED EQUIVALENT) AT END GRAIN LOCATIONS OF ALL VISUALLY EXPOSED MEMBERS TO MINIMIZE END GRAIN CHECKING.

ROUGH SAWN TIMBER BEAM SCHEDULE

MARK	SIZE	NAILING
TB1	203x305mm D.FIR-L NO. 1 FULL ROUGH	REFER TO DRAWING S-202

ROUGH SAWN TIMBER POST SCHEDULE

MARK	SIZE	DESCRIPTION
C1	203x203 D.FIR-L NO.1 FULL ROUGH	SINGLE POST
C2	203x203 D.FIR-L NO.1 FULL ROUGH	GROUP OF TWO
C4	203x203 D.FIR-L NO.1 FULL ROUGH	GROUP OF FOUR

BUILT-UP LUMBER POST SCHEDULE

MARK	SIZE	NAILING
P1	5-PLY 38x140 D.FIR-L SELECT	REFER TO GENERAL NOTES
P2	2-PLY 38x140 D.FIR-L SELECT	REFER TO GENERAL NOTES



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Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

ROOF FRAMING PLANS

Project No. / No. du  
project

CAI 752

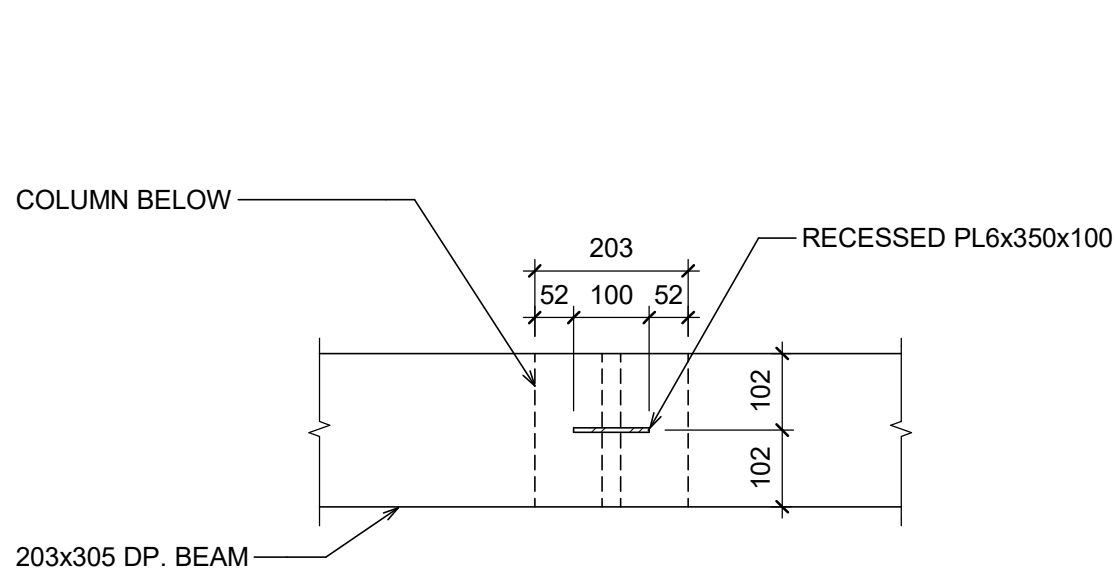
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S-202

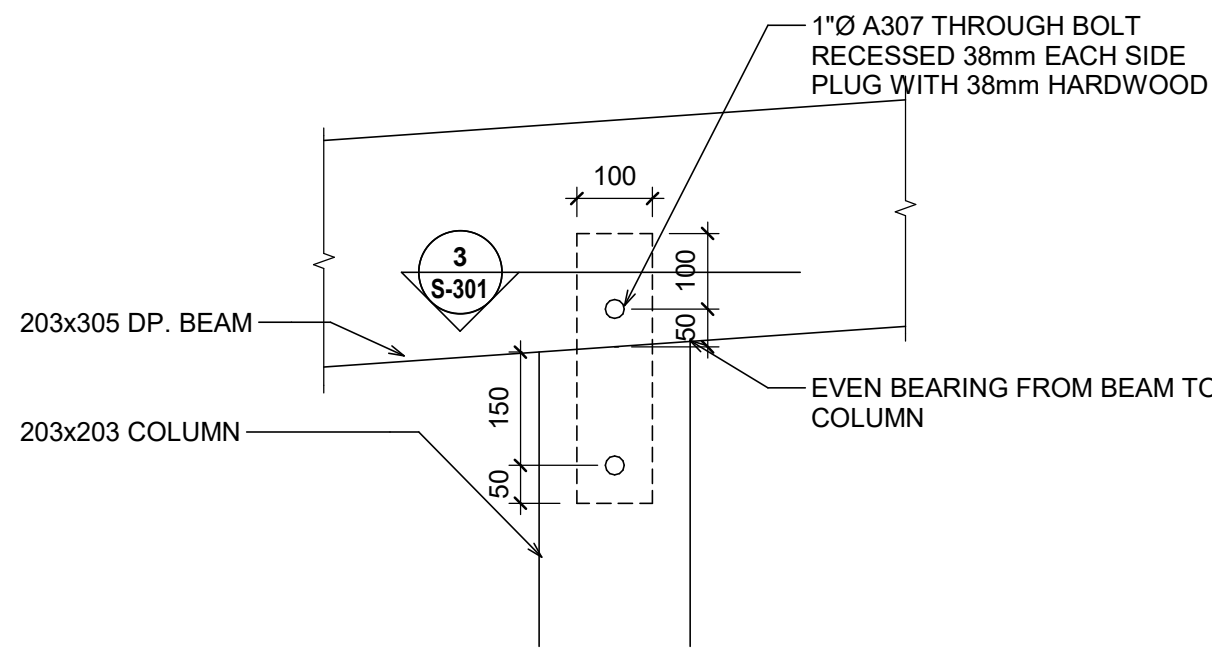
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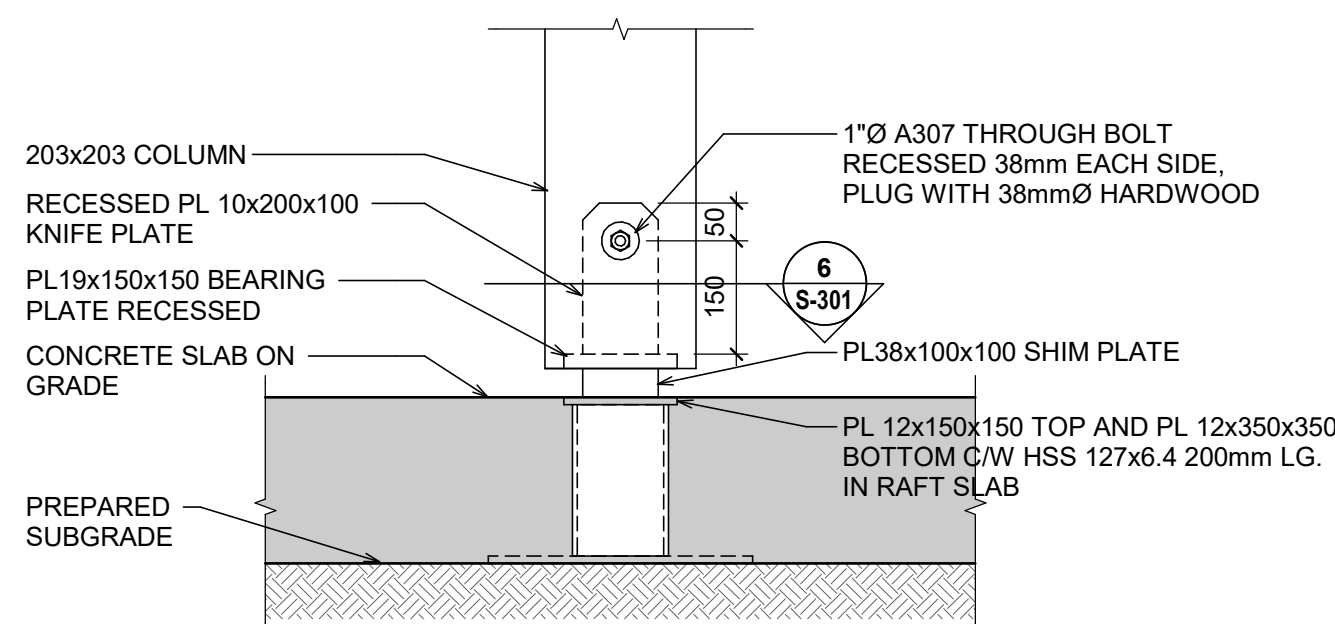




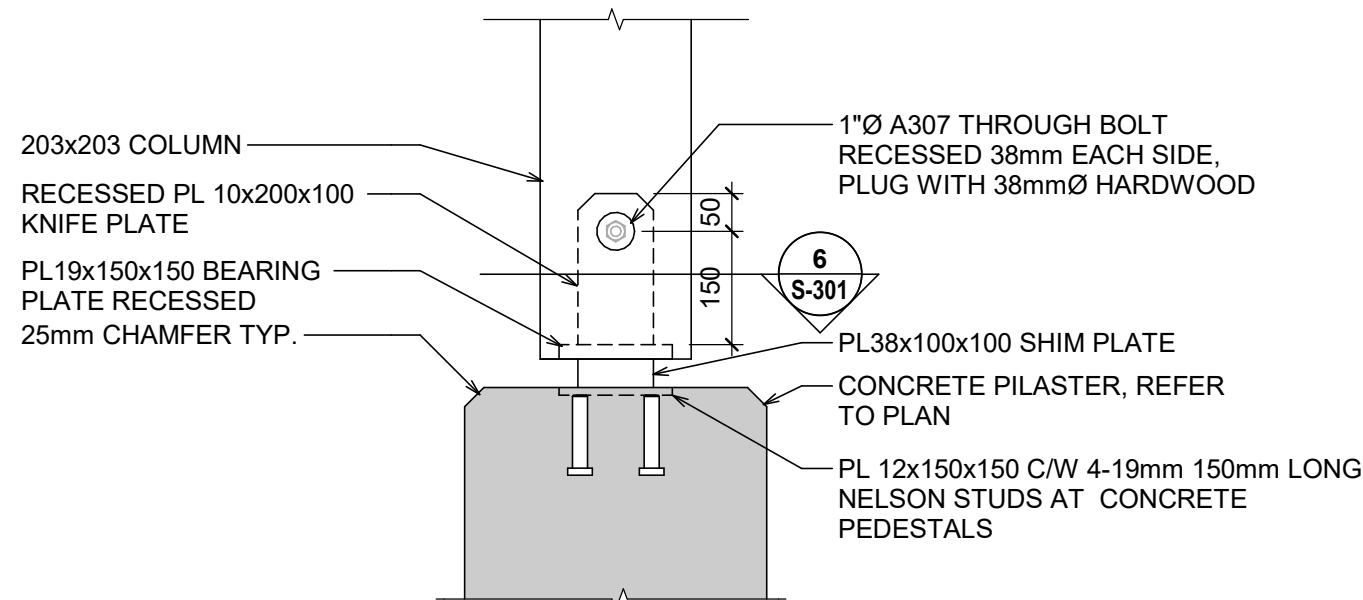
**3**  
**S-301** **TYPICAL COLUMN TO BEAM SECTION**  
1 : 10



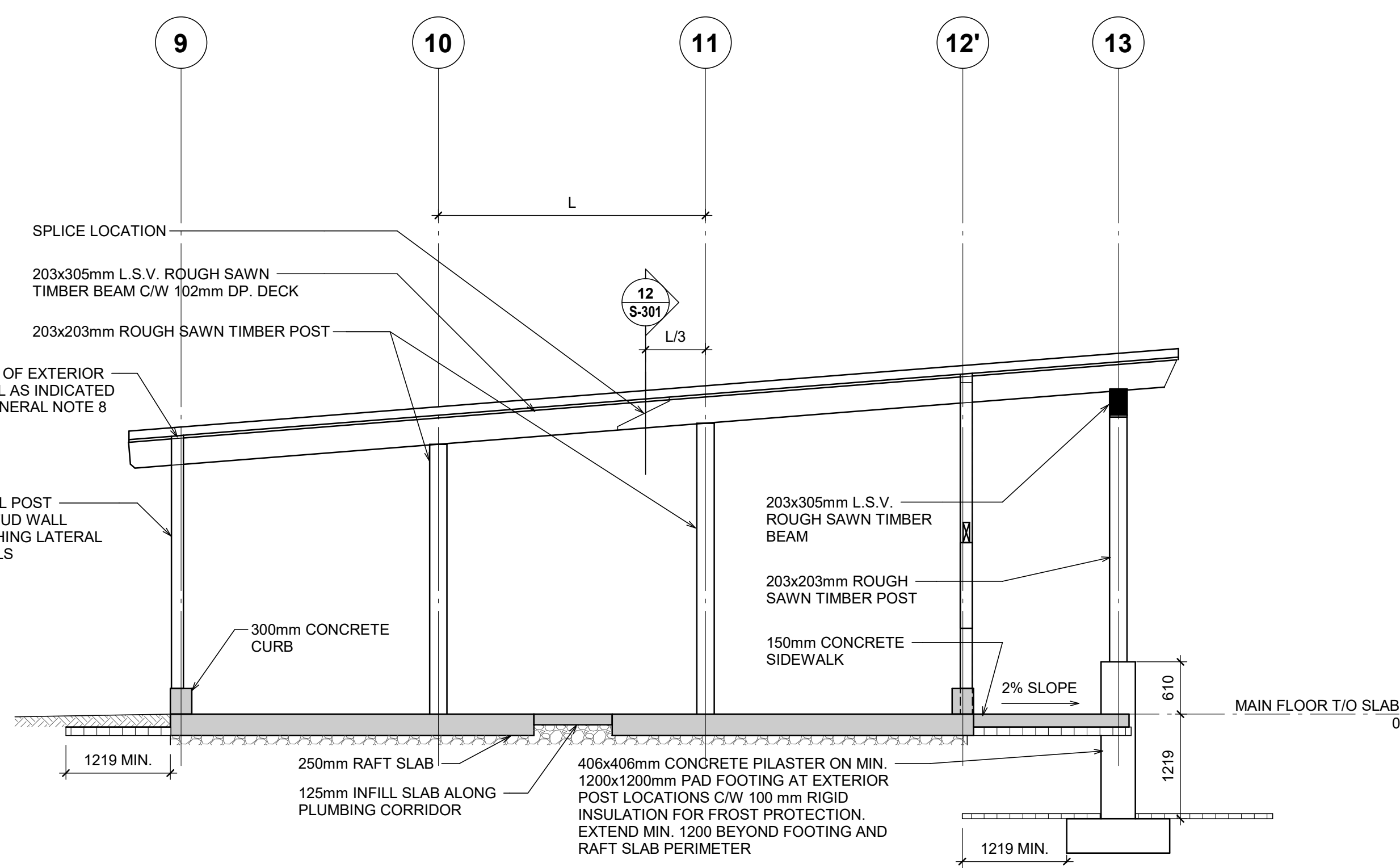
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**S-301** **TYPICAL COLUMN TO BEAM CONNECTION**  
1 : 10



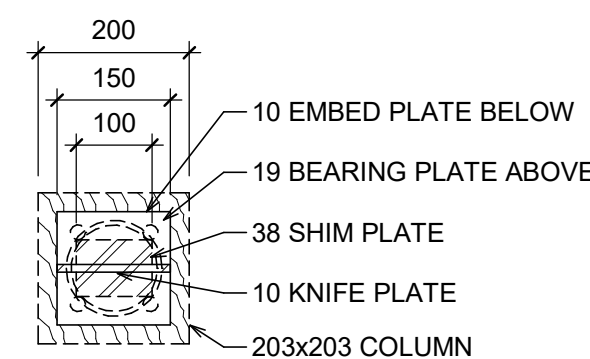
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**S-301** **TYPICAL COLUMN TO RAFT SLAB CONNECTION**  
1 : 10



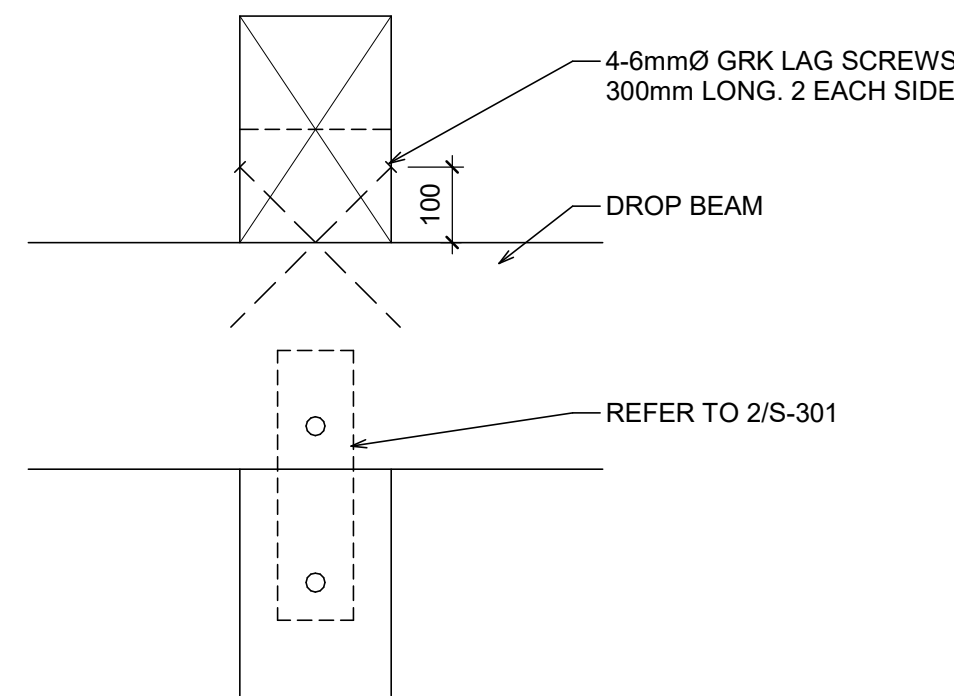
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**S-301** **TYPICAL COLUMN TO PILASTER CONNECTION**  
1 : 10



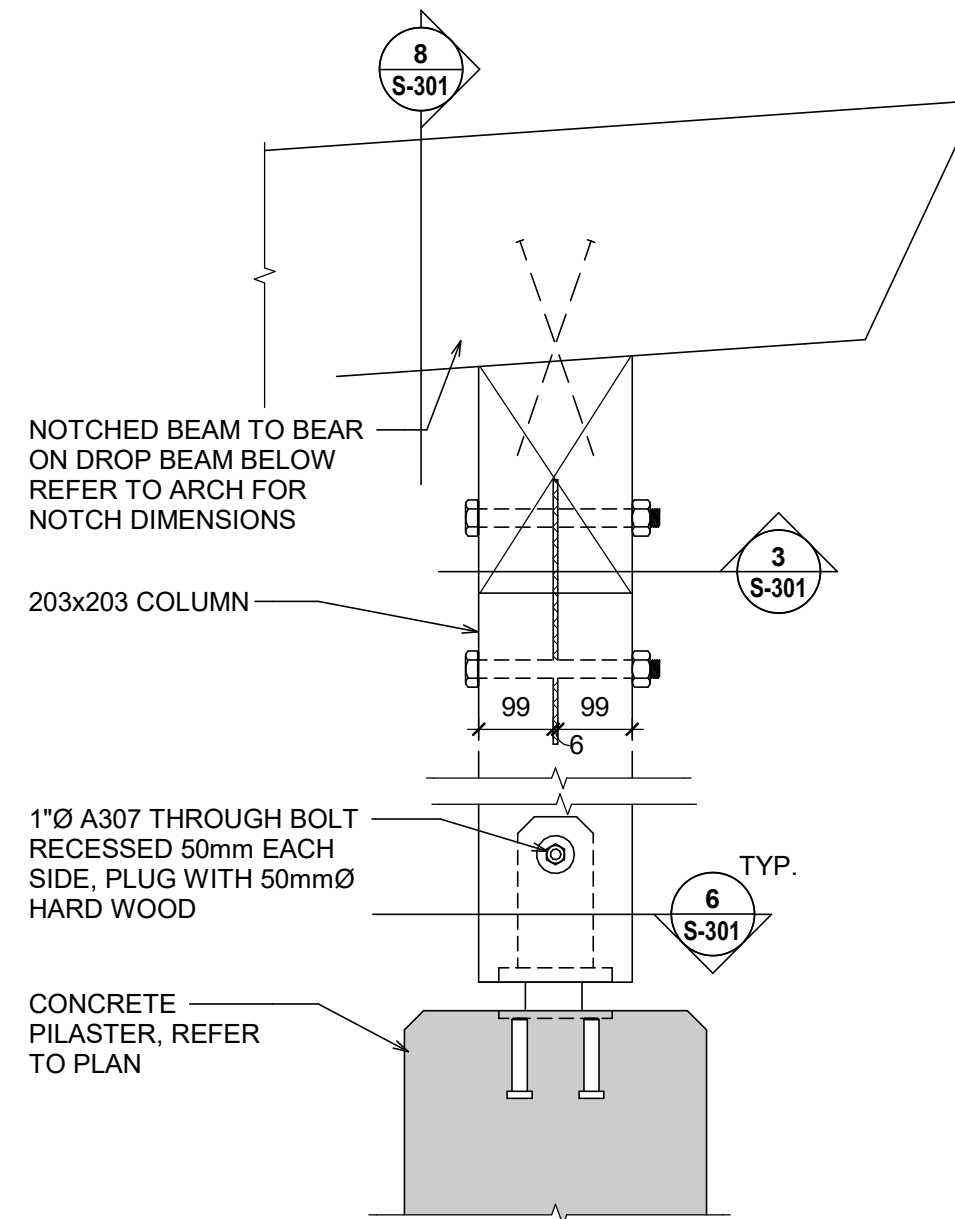
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**S-301** **TYPICAL SECTION**  
1 : 50



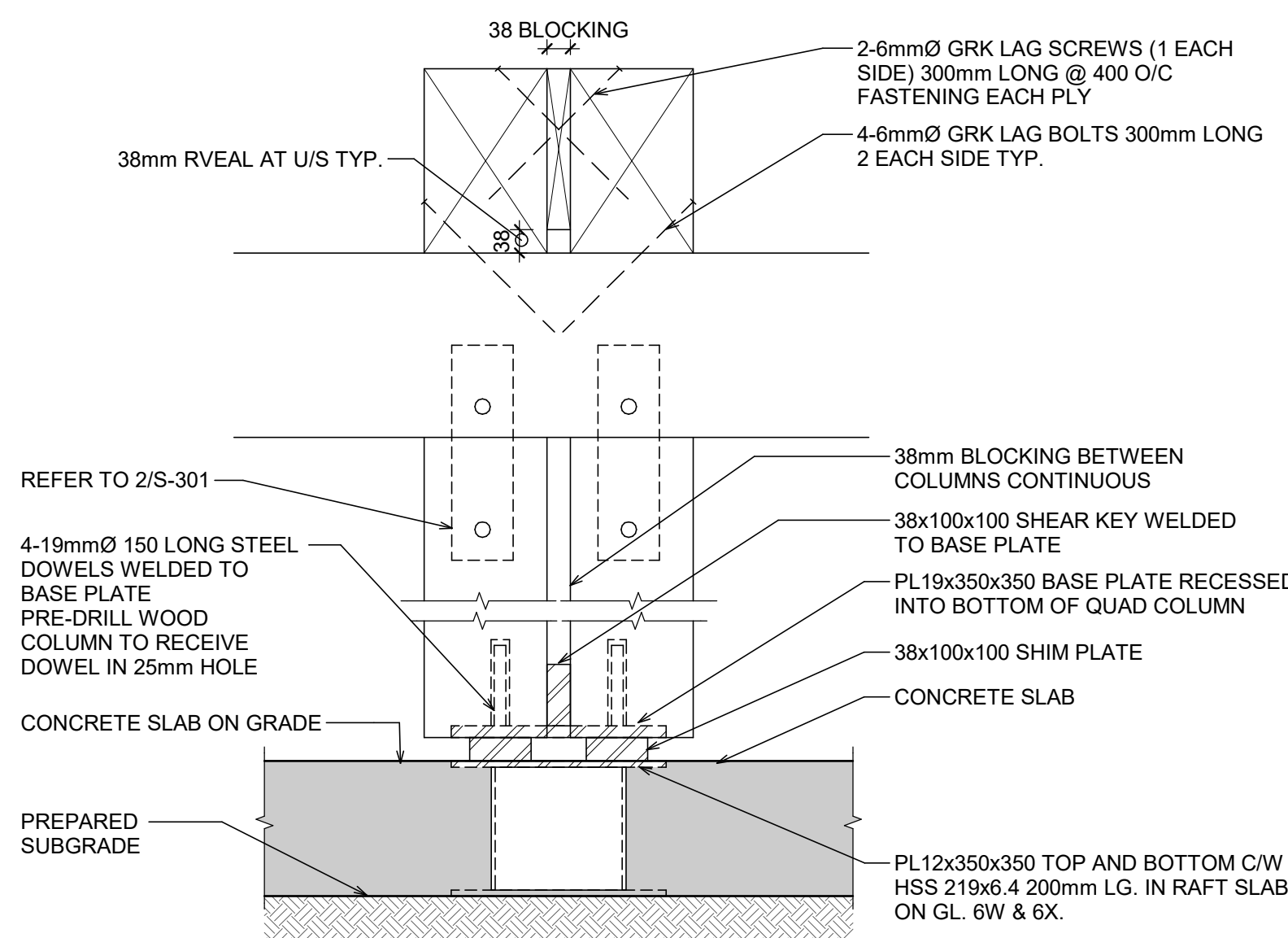
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**S-301** **TYPICAL COLUMN BEARING PLATE SECTION**  
1 : 10



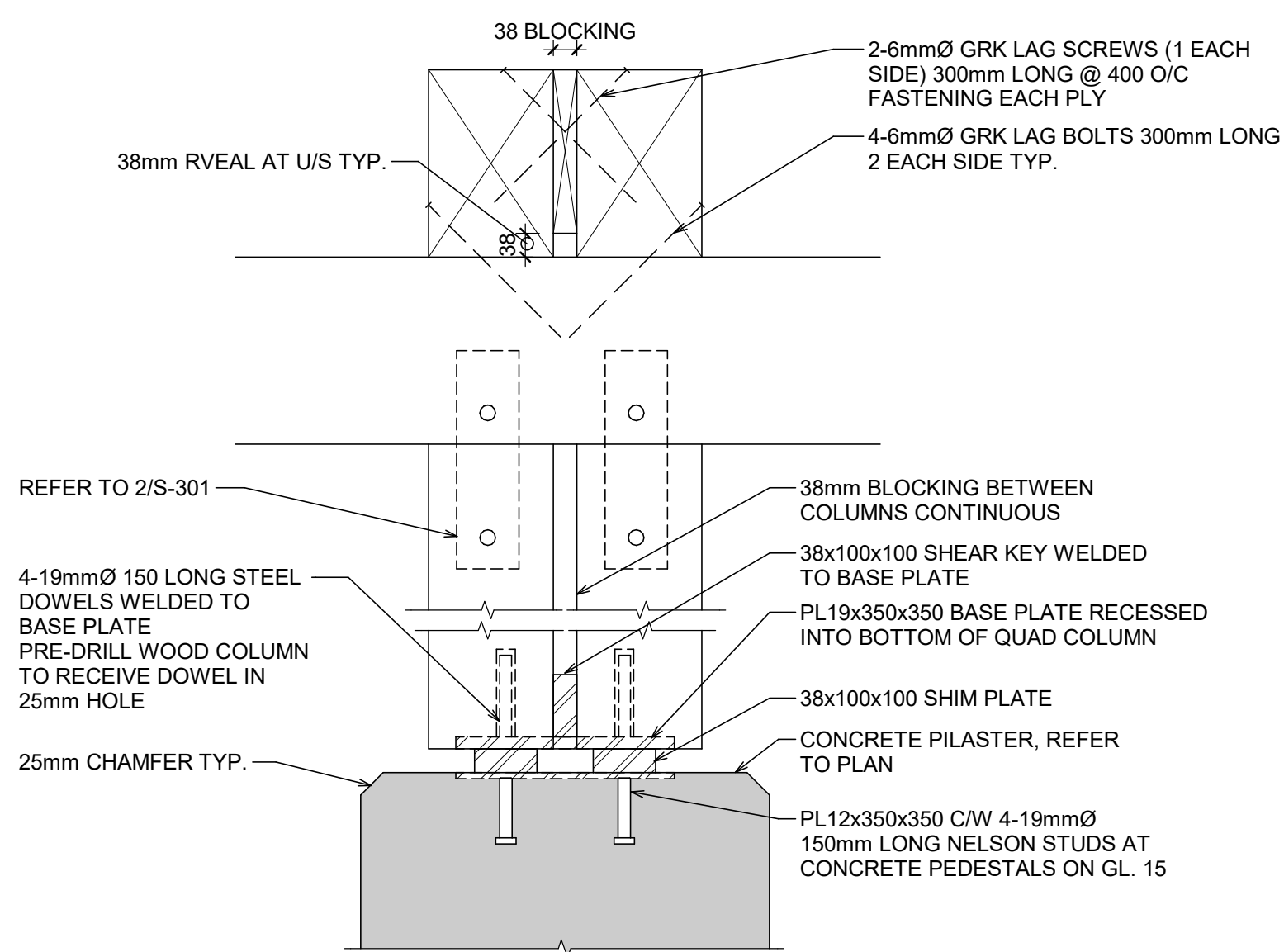
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**S-301** **TYPICAL DROPPED BEAM TO COLUMN SECTION**  
1 : 10



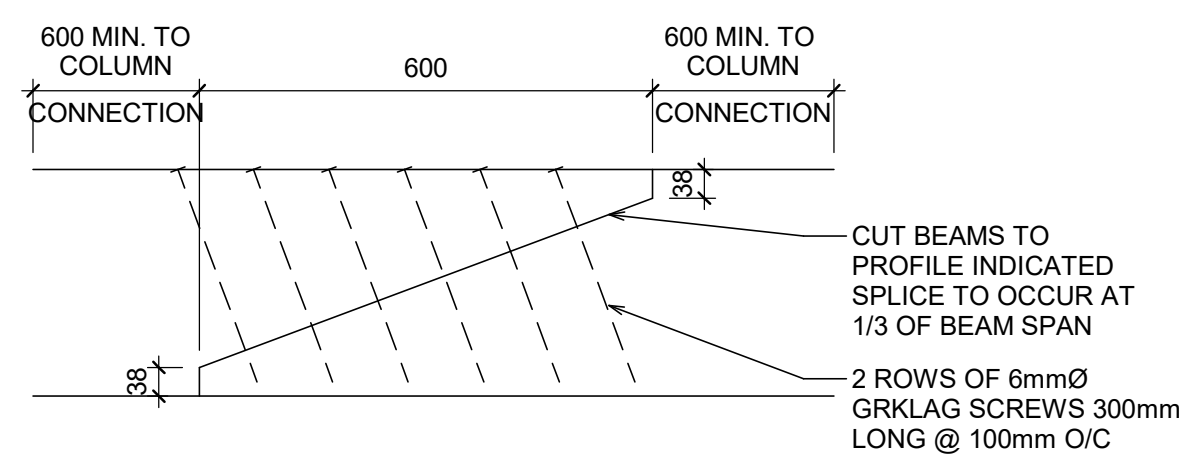
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**S-301** **TYPICAL DROPPED BEAM TO COLUMN CONNECTION**  
1 : 10



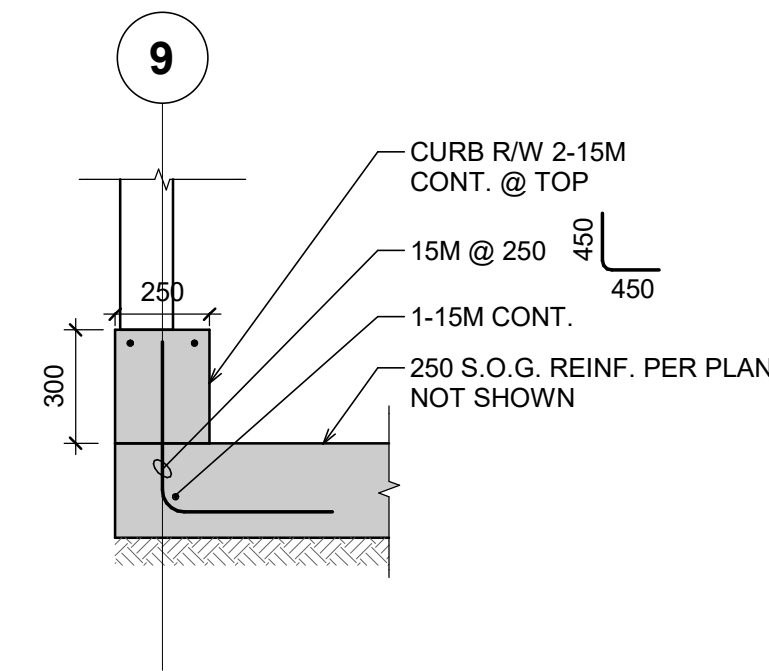
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**S-301** **TYPICAL QUAD AND DOUBLE COLUMN TO RAFT SLAB CONNECTION**  
1 : 10



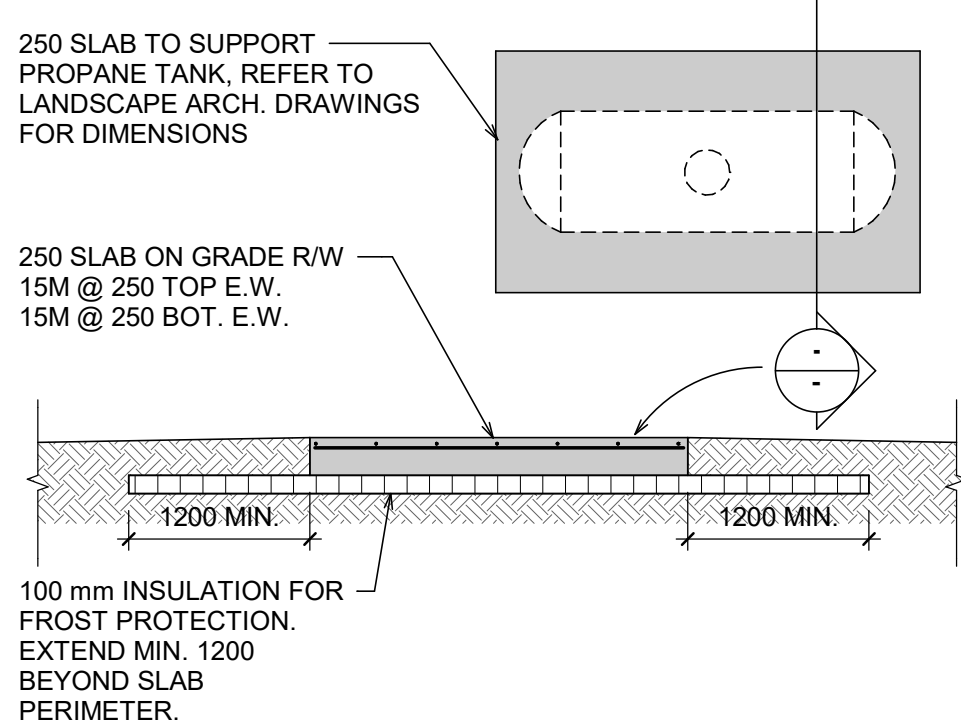
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**S-301** **TYPICAL QUAD AND DOUBLE COLUMN TO PILASTER CONNECTION**  
1 : 10



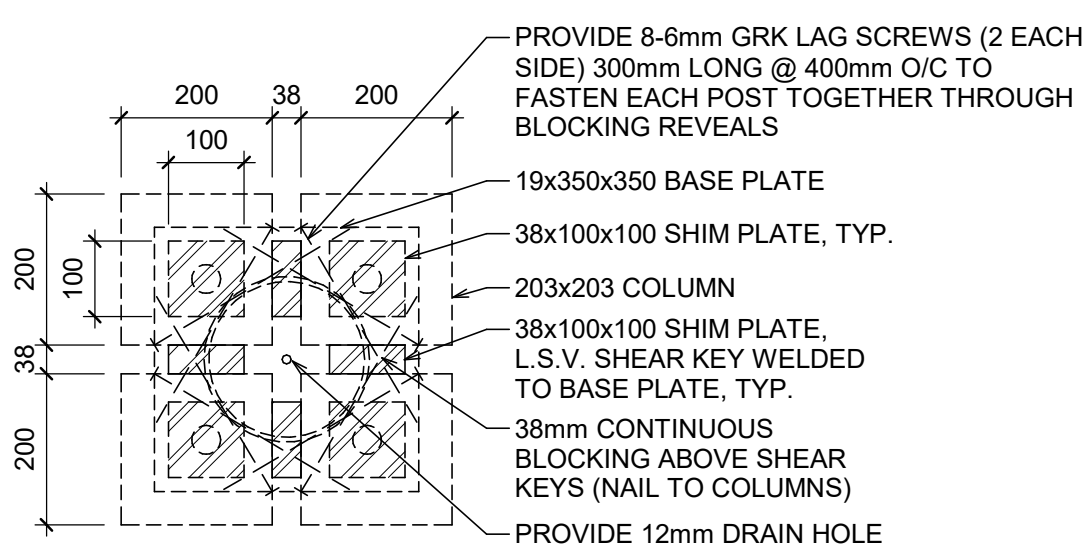
**12**  
**S-301** **TYPICAL SPLICE DETAIL**  
1 : 10



**11**  
**S-301** **TYPICAL CURB AT WALL SECTION**  
1 : 20



**14**  
**S-301** **PROPANE TANK SLAB DETAIL**  
N.T.S.



**13**  
**S-301** **TYPICAL QUAD COLUMN BASE DETAIL**  
1 : 10



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**SECTIONS AND DETAILS**

Project No. / No. du  
project

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Sheet / Feuille

**S-301**

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ROGERS PASS WASHROOM FACILITY

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MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0	MECHANICAL LEGEND
M0S1	M0S1 - MECHANICAL SITE PLAN
M1	FLOOR PLAN - DRAINAGE LAYOUT
M2	FLOOR PLAN - PLUMBING LAYOUT
M3	FLOOR PLAN - H.V.A.C. LAYOUT
M4	FLOOR PLAN - HYDRONIC LAYOUT
M5	MECHANICAL DETAILS
M6	MECHANICAL SCHEDULES

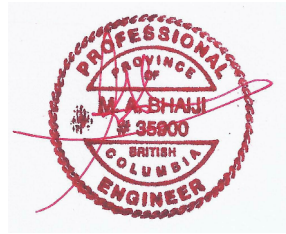
PLUMBING LEGEND	
— S —	SANITARY BELOW
— S —	SANITARY ABOVE
— EXSAN —	EXISTING SANITARY
— V —	SANITARY VENT
— ST —	STORM BELOW
— ST —	STORM ABOVE
— EXST —	EXISTING STORM LINE
— CDP —	CONDENSATE PIPE
— G —	GAS LINE
— R —	RADON LINE
— P —	PROPANE GAS LINE
— —	DOMESTIC COLD WATER
— —	DOMESTIC HOT WATER - 140°F
— —	DOMESTIC HOT WATER RECIRC
— NP —	NON-POTABLE WATER LINE
— EXCW —	EXISTING DOMESTIC COLD WATER
— HWS —	HEATING SUPPLY LINE
— HWR —	HEATING RETURN LINE
— HWR —	HEATING REVERSE RETURN LINE
— CHWS —	CHILLED WATER SUPPLY LINE
— CHWR —	CHILLED WATER RETURN LINE
— CHWRR —	CHILLED WATER REVERSE RETURN
— EX —	EXISTING LINE
C.O. — C.O.	CLEAN OUT BELOW/ABOVE GRADE
~	PIPE BREAK
FD	FLOOR DRAIN
HD	HUB DRAIN
AD	AREA DRAIN
PD	PLANTER DRAIN
RD	ROOF DRAIN
⌵	SHUT OFF VALVE
⌵	GLOBE/BALANCING VALVE
⌵	CONTROL VALVE
⌵	STRAINER
⌵	RELIEF VALVE
⌵	SOLENOID VALVE
P	PRESSURE GAUGE
TS	TEMPERATURE SENSOR
□	THERMOMETER
↺	BACKFLOW PREVENTOR
TS	CHECK VALVE
⌵	HOSE BIBB
⬮	PUMP
⌵	P-TRAP
LB	LAUNDRY BOX
PRV	PRESSURE REDUCING VALVE
⌵	GAS COCK
G	GAS METER
M	WATER METER
•	COLD WATER CW STOPS
•	HOT WATER CW STOPS
▶	DIRECTION OF FLOW
○	PIPE RISE
⌵	PIPE DROP
⌵	PIPE TEE DOWN
⌵	PIPE TEE UP

H.V.A.C. LEGEND	
⊠	SUPPLY AIR DUCT
⊠	RETURN AIR DUCT
⊠	EXHAUST AIR DUCT
⊠	FRESH AIR DUCT
⊠	SUPPLY AIR DIFFUSER
⊠	ROUND S/A DIFFUSER
⊠	SUPPLY AIR GRILLE
⊠	MAKE-UP AIR DIFFUSER
⊠	LINEAR DIFFUSER
⊠	DOOR GRILLE
⊠	RETURN AIR GRILLE
⊠	SIDE WALL SUPPLY GRILLE
⊠	SIDE WALL RETURN GRILLE
⊠	LOUVER
⊠	EXHAUST HOOD
⊠	FLEX DUCT
⊠	EXHAUST GRILLE
⊠	DUCT BREAK
⊠	BALANCING DAMPER
⊠	BACKDRAFT DAMPER
⊠	MOTORIZED DAMPER
⊠	FIRE DAMPER
⊠	OPPOSED BLADE DAMPER
⊠	FIRE AND SMOKE DAMPER COMBINATION
⊠	SMOKE DAMPER
⊠	THERMOSTAT
⊠	REMOTE SENSOR
⊠	CONTROLLER
⊠	AIR DIRECTION ARROW
⊠	DOOR UNDERCUT (1" DEPTH)
⊠	DIRECTION OF FLOW
⊠	CARBON MONOXIDE SENSOR
⊠	EXHAUST FAN
⊠	SIDE WALL EXHAUST FAN
⊠	INFRARED HEATER
⊠	FORCE FLOW HEATER
⊠	BASE BOARD HEATER
⊠	NEW DUCT
⊠	ACOUSTICALLY LINED DUCTWORK
⊠	THERMALLY INSULATED DUCTWORK
⊠	DEMOLITION
⊠	RELOCATE

ABBREVIATION	
SAD	SUPPLY AIR DUCT
RAD	RETURN AIR DUCT
EAD	EXHAUST AIR DUCT
FAD	FRESH AIR DUCT
BD	BALANCING DAMPER
FD	FIRE DAMPER
CW	COME WITH
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTSIDE AIR
DUC	DOOR UNDERCUT
RTU	ROOF TOP UNIT
FCU	FAN COIL UNIT
MUA	MAKE UP AIR UNIT
VAV	VARIABLE AIR VOLUME
CAV	CONSTANT AIR VOLUME
EF	EXHAUST FAN
FUR	FURNACE UNIT
CU	CONDENSING UNIT
CH	CHILLER UNIT
FF	FORCE FLOW UNIT
BB	BASEBOARD UNIT
IF	INFRARED HEATING UNIT
AC	AIR COMPRESSOR
DCW	DOMESTIC WATER
DHW	HOT WATER
DHWR	RECIRCULATION WATER
DCVA	DOUBLE-CHECK VALVE ASSEMBLY
DCBP	DOUBLE-CHECK BACKFLOW PREVENTOR
NFHB	NON FREEZE HOSE BIBB
S	SANITARY LINE
ST	STORM LINE
V	SANITARY VENT LINE
WS	WASTE STACK
WC	WATER CLOSET
LAV	LAVATORY
BT	BATHTUB
KS	KITCHEN SINK
BS	BAR SINK
SH	SHOWER
MS	MOP SINK
URI	URINAL
LB	LAUNDRY BOX
RWL	RAINWATER LEADER
FE	FIRE EXTINGUISHER
ER	EXISTING TO REMAIN
RF	RADIANT FLOOR PANEL



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7	ISSUED FOR TENDER	19-01-10
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5	99% REVIEW	18-10-19
4	99% REVIEW	18-10-03
3	90% REVIEW	18 08 17
2	60% REVIEW	18 06 08
1	30% REVIEW	18 03 23

Revision / Revision	Description / Description	Date / Date
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Client / client



Project title/Titre du projet

ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

Approved by/Approuve par  
MB

Designed by/Concept par  
DL

Drawn by/Dessine par  
DL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

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Parks Canada

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MECHANICAL LEGEND

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CAI 752

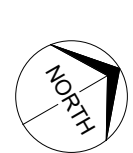
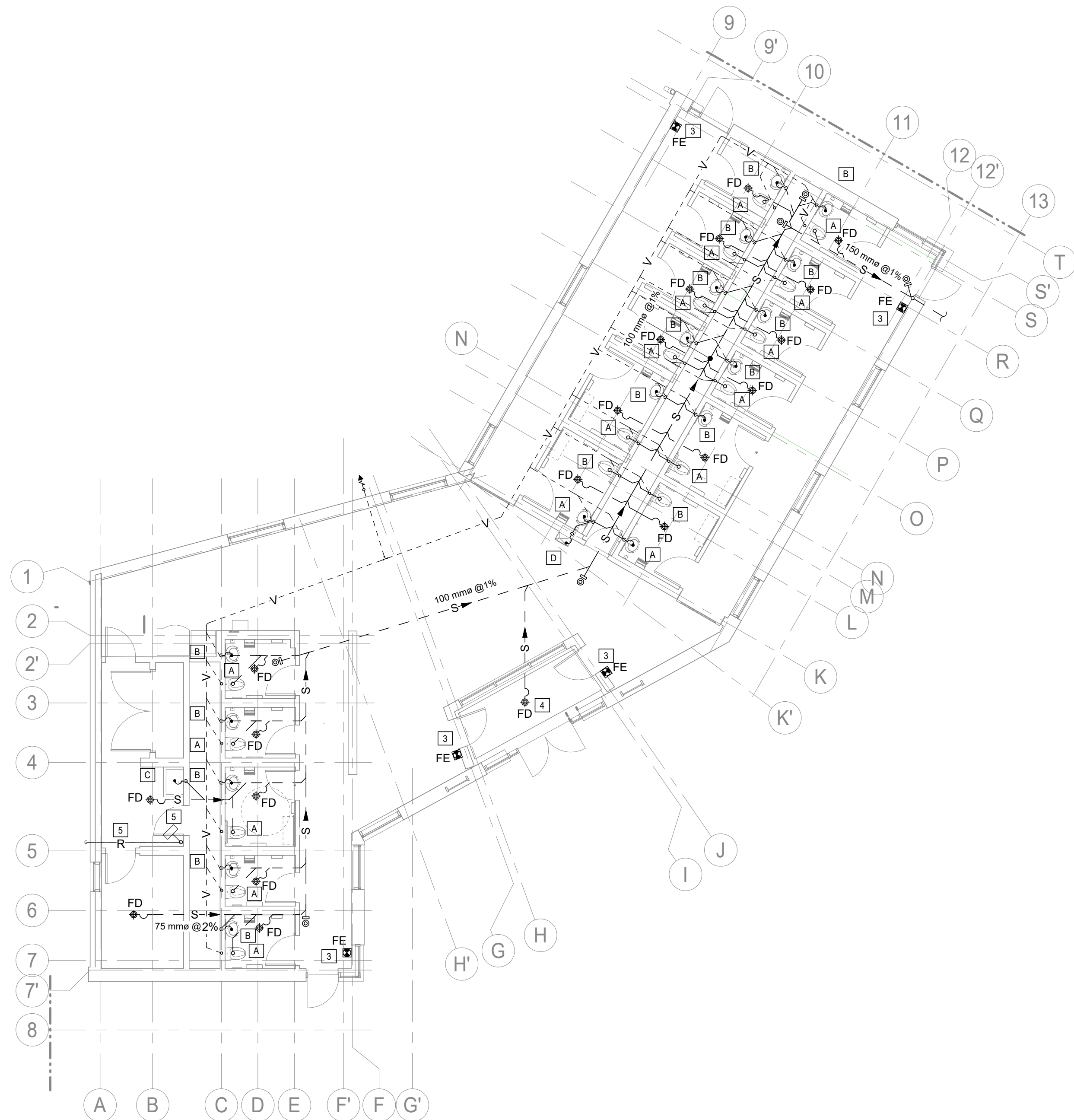
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01  
M1

## FLOOR PLAN - DRAINAGE LAYOUT

1 : 100

### GENERAL NOTES

1. BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
2. LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE
3. CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
4. WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
5. PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY, FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
6. PROVIDE TRAP SEALER FOR ALL FLOOR AND HUB DRAINS.
7. EXTEND SANITARY VENT LINE FROM FIXTURES AS PER NATIONAL AND LOCAL PLUMBING CODES.
8. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT TO BE MOUNTED ON 100mm HOUSE KEEPING PAD.
9. CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
10. CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

### DRAINAGE NOTES

- 1 APPROXIMATE LOCATION OF 150ø SANITARY LINE @11.788 INVERT LEVEL. EXTEND NEW 150ø TO SPACE. CONFIRM INVERT WITH DSSP AND CIVIL DRAWINGS.
- 2 PROVIDE 50ø SANITARY VENT AT HIGH LEVEL AND EXTEND THROUGH SIDEWALL C/W WALL CAP.
- 3 PROVIDE FIRE EXTINGUISHER PER NFPA10.
- 4 TRAFFIC RATED METAL GRILL IN VESTIBULE BY ARCHITECT. COORDINATE WITH ARCHITECT.
- 5 PROVIDE 4"ø RADON EXHAUST PIPE UP THROUGH CONCRETE SLAB AND EXTEND THROUGH SIDEWALL. COORDINATE WITH ARCHITECT. REFER TO DETAIL.



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2	60% REVIEW	18-06-08
1	30% REVIEW	18-03-23

Revision / Revisión	Description / Description	Date / Date
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Client / client



Project title/Titre du projet

## ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par MB
Designed by/Concept par DL
Drawn by/Dessiné par DL
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

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FLOOR PLAN - DRAINAGE LAYOUT

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CAI 752	M1	





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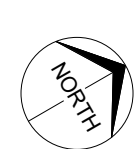
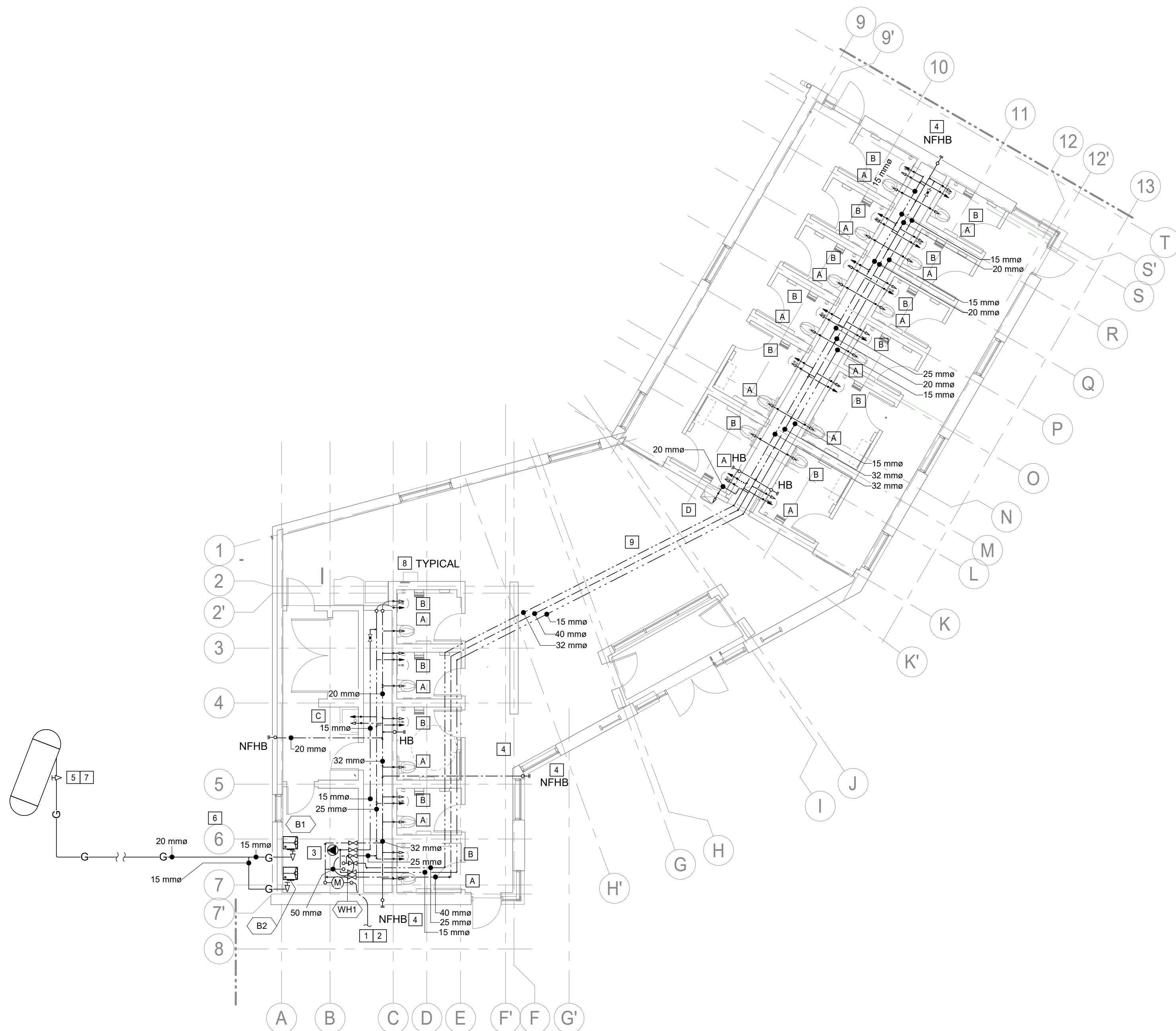


#### GENERAL NOTES

1. BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
2. LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE.
3. CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
4. WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
5. PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY, FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
6. PROVIDE TRAP SEALER FOR ALL FLOOR AND HUB DRAINS.
7. EXTEND SANITARY VENT LINE FROM FIXTURES AS PER NATIONAL AND LOCAL PLUMBING CODES.
8. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT TO BE MOUNTED ON 100mm HOUSE KEEPING PAD.
9. CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
10. CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

#### PLUMBING NOTES

- 1 APPROXIMATE LOCATION OF INCOMING 100mmø DCW LINE. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
- 2 EXTEND 100mmø JOINLESS PEX UNDER SLAB TO WATER METER IN MECHANICAL ROOM.
- 3 EXTEND 40mmø CW, 25mmø HW AND 15mmø RECIRC LINE TO SOUTH WING WASHROOM AND EXTEND 40mmø CW, 32mmø HW AND 15mmø RECIRC LINE TO NORTH WING WASHROOM.
- 4 EXTEND 20mmø CW TO NON-FREEZE HOSE BIBB. NFHB TO BE 914mm A.F.F. COORDINATE WITH ARCHITECT. NON-FREEZE HOSE BIBB TO BE JAY-R SMITH 55090QT OR EQUIVALENT.
- 5 APPROXIMATE LOCATION OF 500 GALLON PROPANE GAS TANK C/W REGULATOR TO BE SUPPLIED AND INSTALLED BY CONTRACTOR AS PART OF THIS CONTRACT. ENSURE TANK HAS 10FT CLEARANCE FROM BUILDING AND PROPERTY LINE. CONTRACTOR TO CONFIRM EXACT REQUIRED EQUIPMENT WITH THE SUPPLIER BEFORE SUBMITTING BID.
- 6 EXTEND 20mmø GAS LINE FROM PROPANE TANK TO BOILERS C/W GAS COCK. CONFIRM PIPE SIZE BASED ON THE EXACT LENGHT OF THE GAS PIPE ON SITE. GAS PIPE FROM PROPANE TANK TO THE BUILDING TO BE BURIED UNDERGROUND. CONFIRM UNDERGROUND DEPTH OF THE PIPE AND DETAIL WITH SUPPLIER.
- 7 PROPANE TANK TO BE LOCATED 38FT (11582mm) FROM THE BUILDING. CONTRACTOR TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE FOR EXACT LOCATION OF THE TANK ON SITE.
- 8 PROVIDE ZURN MODEL 1260XL, WADE 4481 OR APPROVED EQUIVALENT WATER HAMMER ARRESTOR AT CW AND HW BRANCHES SERVING THE FIXTURES.
- 9 COORDINATE WITH PCA FOR PIPE INSULATION COLOR WHERE THE PIPE IS EXPOSED TO PUBLIC AREA.



01  
M2

## FLOOR PLAN - PLUMBING LAYOUT

1 : 100

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5	99% REVIEW	18-10-19
4	99% REVIEW	18-10-03
3	90% REVIEW	18-08-17
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1	30% REVIEW	18-03-23

Revision / Revision Description / Description Date / Date

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Project title/Titre du projet

## ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuve par  
MB

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DL

Drawn by/Dessine par  
DL

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
Parks Canada

Drawing title / Titre du dessin

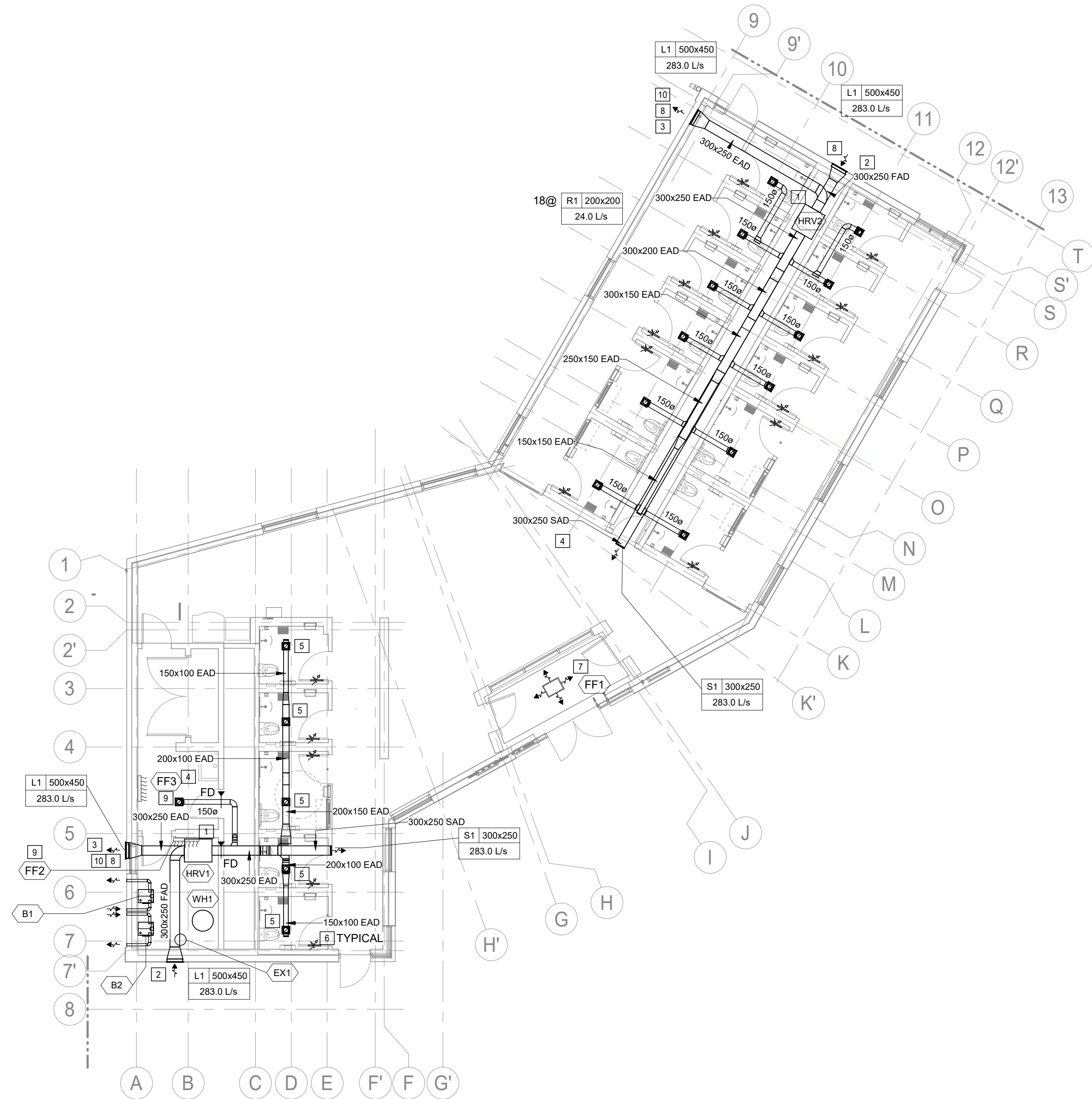
FLOOR PLAN - PLUMBING LAYOUT

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project  
CAI 752

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M2

Revision no. /  
La Révision  
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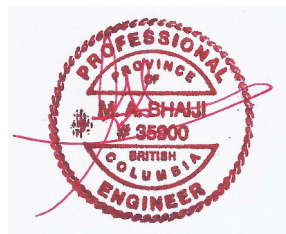
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M3 FLOOR PLAN - H.V.A.C. LAYOUT  
1 : 100

- GENERAL NOTES
- BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
  - LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE.
  - CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
  - ALL BRANCH DUCTWORK TO HAVE BALANCING DAMPERS.
  - RUN ALL DUCTWORK AT HIGHEST LEVEL POSSIBLE.
  - CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
  - CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

- H.V.A.C. NOTES
- LOCATION OF NEW HRV. PROVIDE 20KW DUCT HEATER IN HRV S/A DUCT. SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE DUCT MOUNTED THERMOSTAT. DUCT HEATER TO BE SLIP-IN, DUCT MOUNTED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS. SET THERMOSTAT TO 22°C.
  - EXTEND 300x250 F/A DUCT TO HRV. ENSURE 3000mm CLEARANCE FROM ALL AIR EXHAUSTS. COORDINATE WITH ARCHITECT AND STRUCTURAL FOR LOCATION OF LOUVERS.
  - EXTEND 300x250 E/A DUCT FROM HRV. ENSURE 3000mm CLEARANCE FROM ALL AIR INLETS. COORDINATE WITH ARCHITECT AND STRUCTURAL FOR LOCATION OF LOUVERS.
  - EXTEND 300x250 S/A DUCT FROM HRV.
  - EXTEND 150mmø E/A DUCT FROM WASHROOM EXHAUST GRILL AND CONNECT TO 300x250 E/A DUCT.
  - PROVIDE 250mmx100mm DOOR GRILLES AT LOW LEVEL.
  - PROVIDE 4kW CEILING SUSPENDED ELECTRIC FORCE FLOW HEATER SUPPLIED AND INSTALLED BY ELECTRICAL.
  - COORDIANTE FOR THE HEIGHT OF THE LOUVER WITH ARCHITECT.
  - PROVIDE 4kW WALL MOUNTED ELECTRIC FORCE FLOW HEATER SUPPLIED AND INSTALLED BY ELECTRICAL.
  - PROVIDE SOLID SOFIT UP 1200mm ON EACH SIDE OF EXHAUST GRILLE. COORDINATE WITH ARCHITECT.



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ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
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FLOOR PLAN - H.V.A.C. LAYOUT

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project

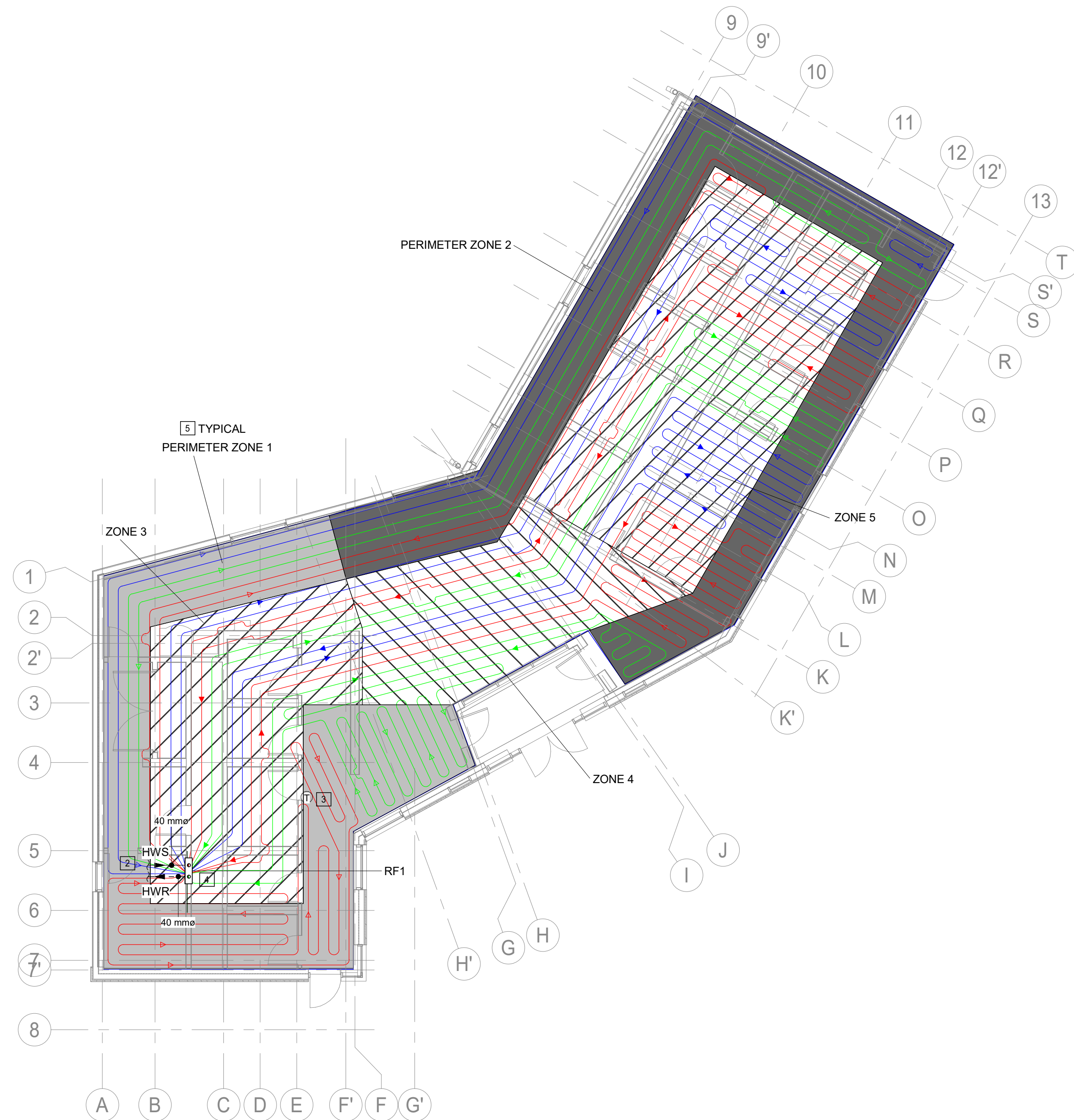
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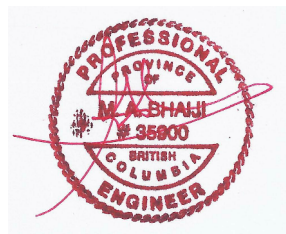




01 FLOOR PLAN - HYDRONIC LAYOUT  
M4 1 : 100

- GENERAL NOTES
1. BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
  2. LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE.
  3. CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
  4. WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
  5. PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY, FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
  6. CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
  7. CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

- HYDRONIC NOTES
- 1 IN-FLOOR PIPING LAYOUT IS SCHEMATIC ONLY. CONTRACTOR TO SUBMIT FINAL LAYOUT DRAWING FOR APPROVAL. COORDIANTE AROUND COLUMN LOCATIONS ON SITE.
  - 2 40mmø HWS AND HWR LINES TO AND FROM THE HEATING MANIFOLD.
  - 3 THERMOSTAT TO BE MOUNTED 1200mm A.F.F C/W LOCKBOX.
  - 4 CONNECT HWS AND HWR TO IN-FLOOR HEATING MANIFOLD AS PER MANUFACTURER'S INSTRUCTIONS. REFER TO IN-FLOOR HEATING SCHEDULES AND HEATING MANIFOLD DETAIL.
  - 5 CONTRACTOR TO ENSURE IN-FLOOR PIPING LAYOUT SHALL BE ZONED AS INDICATED WITH TWO PERIMETER ZONES AND THREE INTERIOR ZONES.



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4	99% REVIEW	18-10-03
3	90% REVIEW	18 08 17

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ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

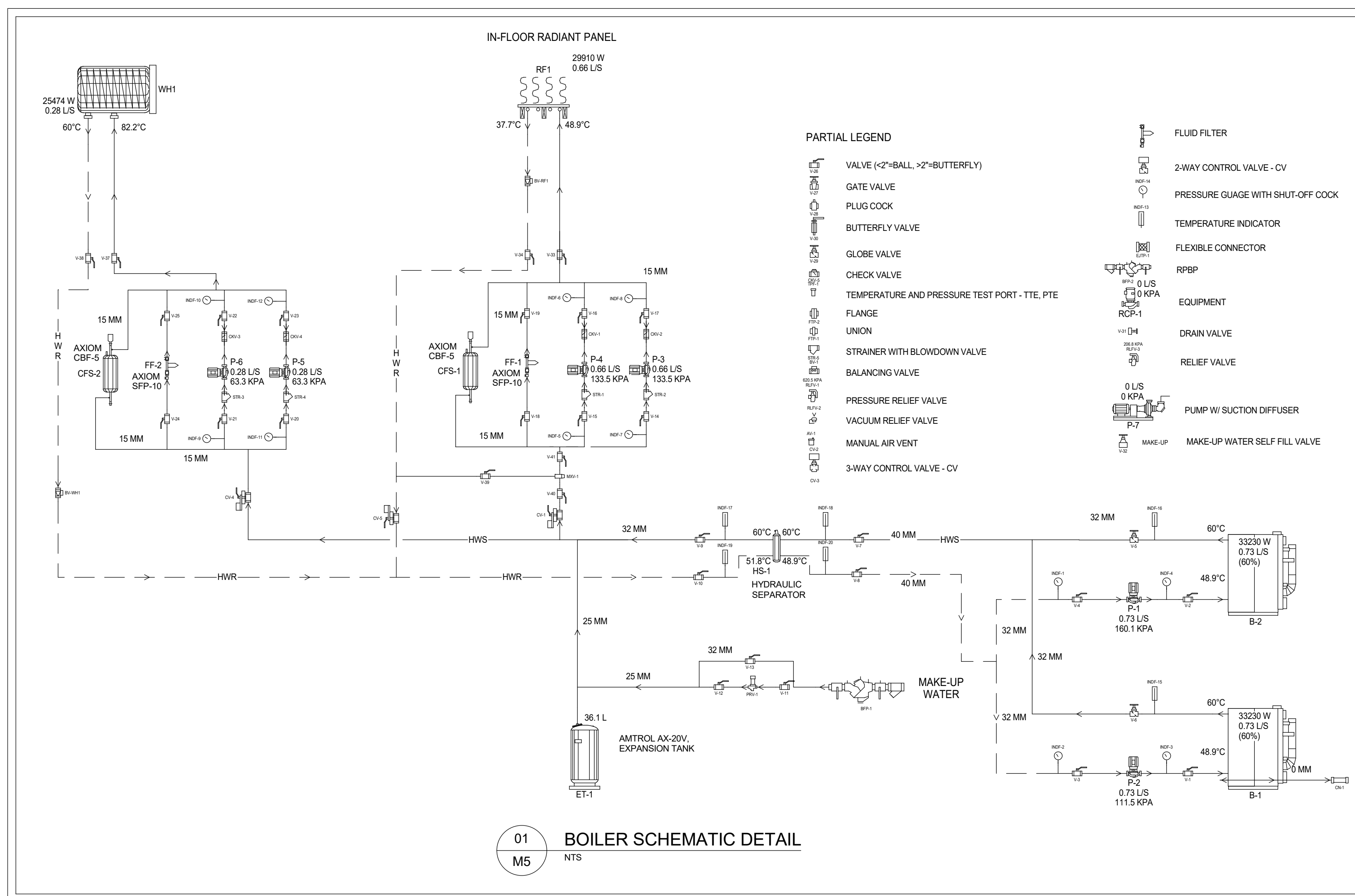
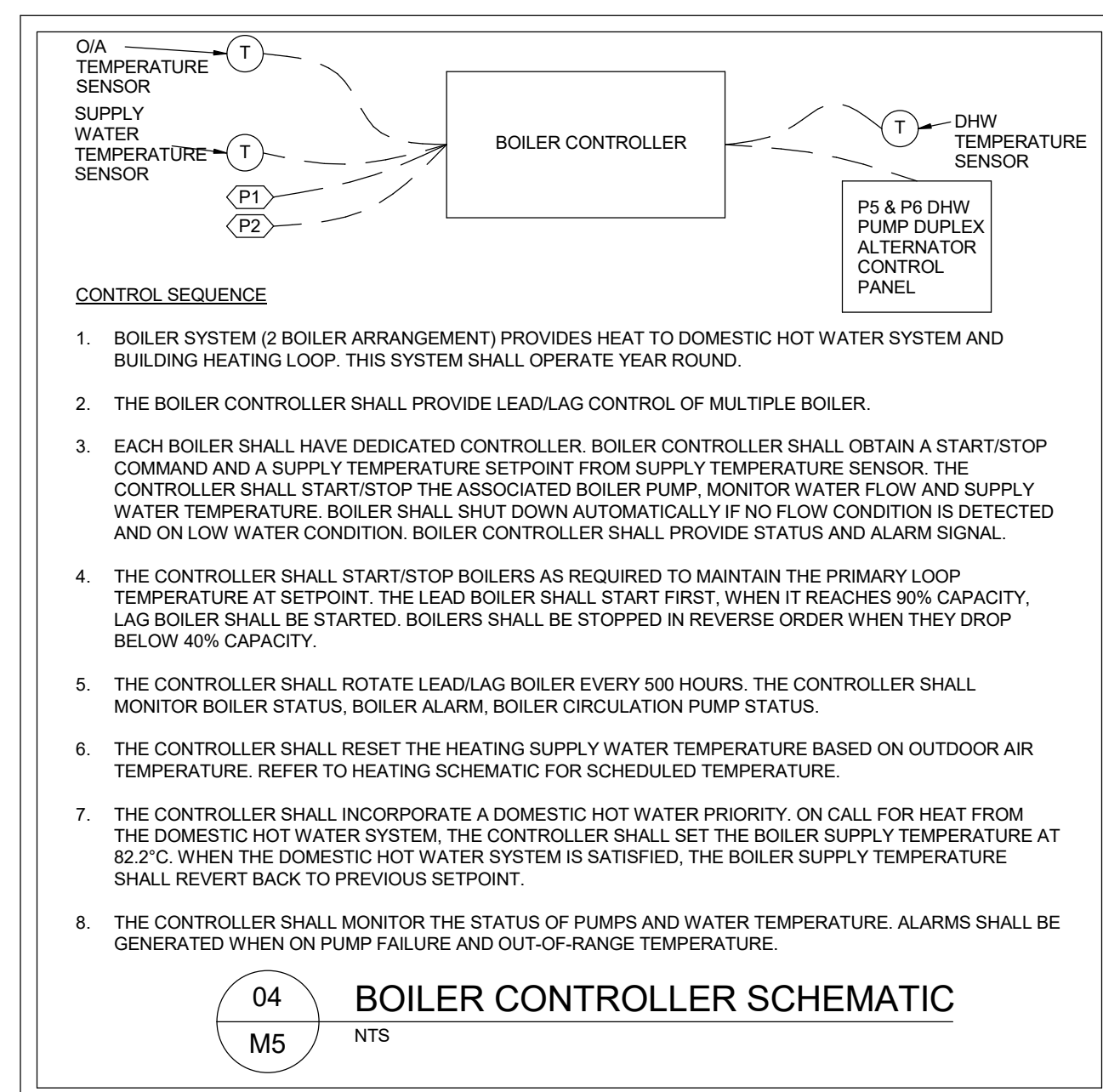
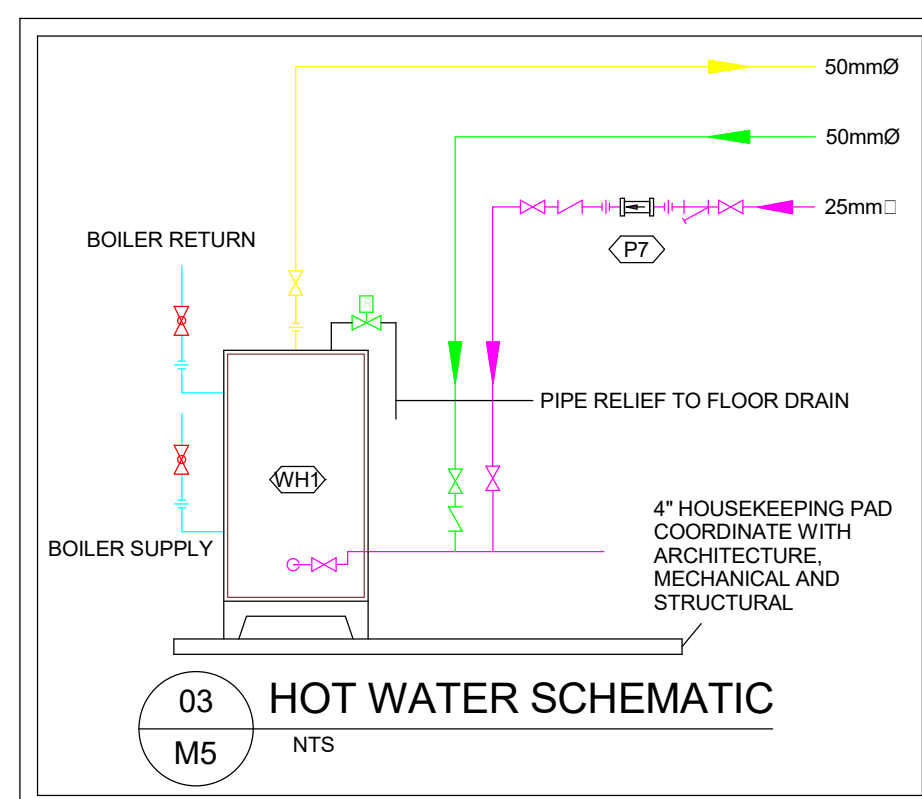
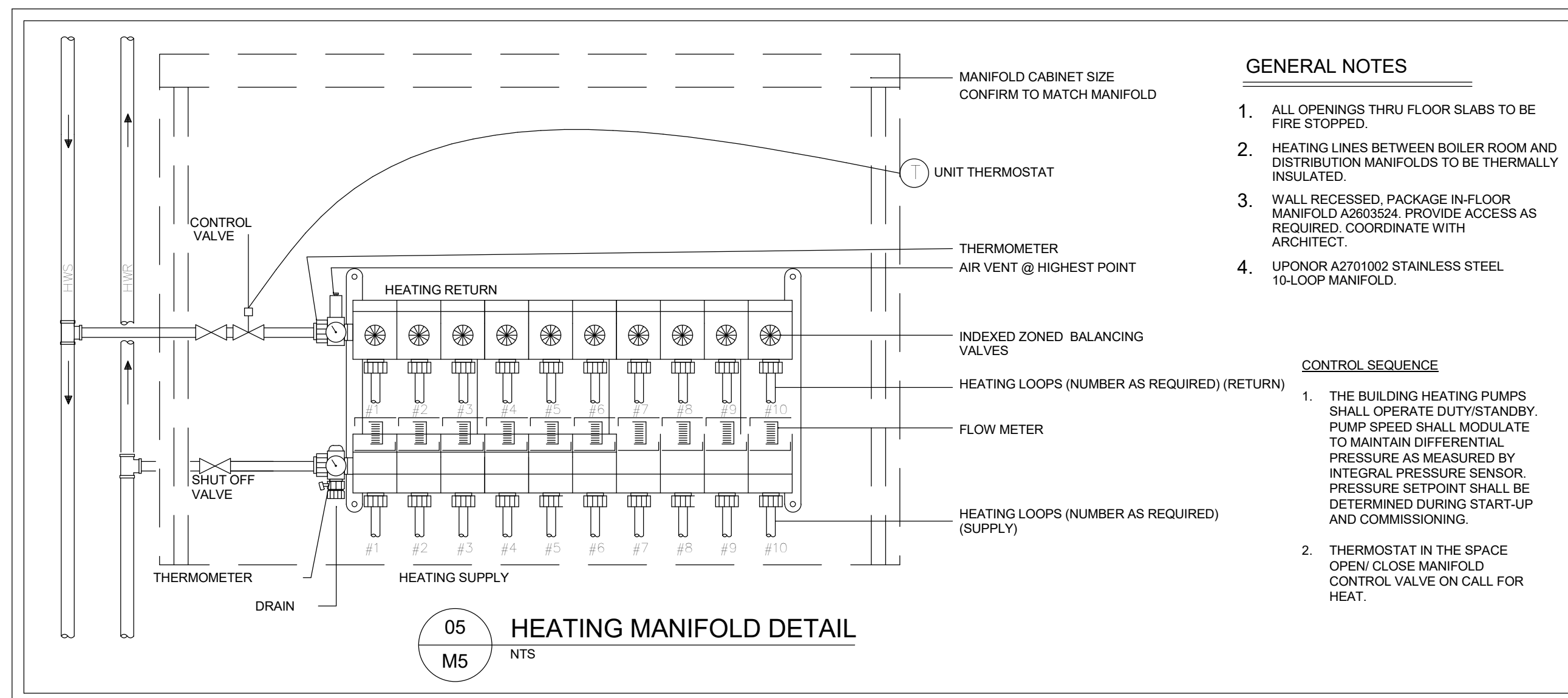
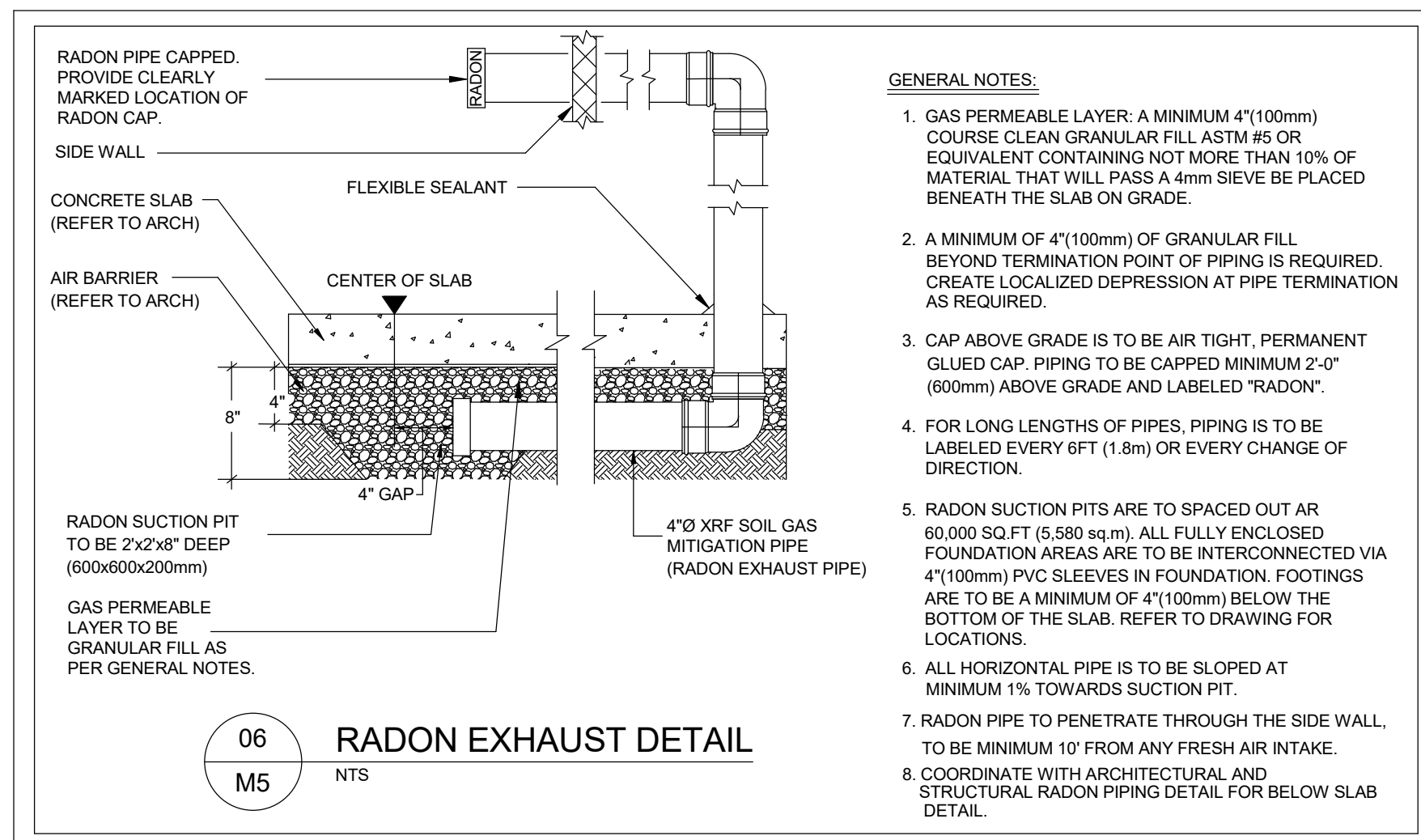
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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie
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FLOOR PLAN - HYDRONIC LAYOUT

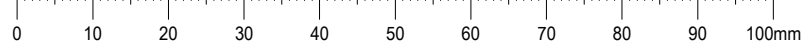
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GRILLE/ DIFFUSER SCHEDULE	
GRILLE/DIFFUSER TYPE →	← NECK SIZE OR GRILLE SIZE ← AIR FLOW (L/S)
TYPE S1	- EH PRICE MODEL 520/F/A/B12 (FINISH: ALUMINUM )
TYPE R1	- EH PRICE MODEL 510D/F/A/B12 (FINISH: WHITE)
TYPE L1	- WESTVENT SF-430W, STEEL, 100mm WEATHER PROOF BLADE (FINISH: BY ARCHITECT)
PROVIDE DAMPERS FOR EXHAUST GRILLES	
PROVIDE ALL DIFFUSERS AND GRILLES WITH INSECT SCREEN THAT CAN BE EASILY CLEANED AND REPLACED.	
PROVIDE MOUNTING KITS FOR T-BAR AND DRYWALL WHERE REQUIRED	
CONTRACTOR TO PROVIDE ACCESS PANELS WHERE BALANCING DAMPERS ARE INACCESSIBLE. CONTRACTOR TO CONFIRM LOCATION OF ACCESS PANEL WITH GC PRIOR TO INSTALLATION.	
CONFIRM WITH ARCHITECT.	

MANIFOLD IN-FLOOR HEATING SCHEDULE	
AREA	273 m2
TOTAL HEATING CAPACITY	107.7 MJ/Hr
TOTAL WATER FLOW	0.67 L/S
OUTPUT	89.31 MJ/Hr
NUMBER OF LOOPS	10
AVERAGE LENGHT OF LOOP	90.09 m
PIPE SIZE/LOOP	15 mm
AVERAGE WATER FLOW PER LOOP	0.06 L/S
PRESSURE DROP	21.82 kPa
PIPE SPACING	300 mm O.C.

GAS EQUIPMENT SCHEDULE	
EXTEND 2"Ø GAS LINE FROM PROPANE TANK TO BOILERS. SIZING BASED ON 100FT LENGTH TO FURTHEST EQUIPMENT.	
GAS LOAD SIZE: 1,000 CFH GAS EQUIPMENT LOAD: 860 CFH	
BOILER B1 BOILER B2	110 CFH 110 CFH
TOTAL LOAD	220 CFH 220,000 BTUH

EXPANSION TANK SCHEDULE				
TAG	MANUFACTURER	MODEL	VOLUME	REMARKS
EX1	AMTROL, TACO OR APPROVED EQUIVALENT	AX-20V, CBX42-125 OR APPROVED EQUIVALENT	41.3 L	861 KPA OPERATING PRESSURE

HOT WATER HEATER UNIT SCHEDULE						
TAG	LOCATION	MANUFACTURER	MODEL	CAPACITY	BTU/HR INPUT	REMARKS
WH1	MECH ROOM	LOCHINVAR, TRIANGLE TUBE OR APPROVED EQUIVALENT	SIT065, SMART 80 OR APPROVED EQUIVALENT	253 LT	INDIRECT	INSTALL ON HOUSE KEEPING PADS. SEE BOILER SCHEMATIC FOR PIPING. ENSURE EQUIPMENT IS RATED FOR HIGH ALTITUDE OPERATION.

BOILER UNIT SCHEDULE							
TAG	LOCATION	MANUFACTURER	MODEL	GAS (kJ/Hr)	HEATING CAPACITY (kJ/Hr)	ELECTRICAL (V/PH/Hz)	REMARKS
B1	MECH ROOM	LOCHINVAR, VIESSMAN OR APPROVED EQUIVALENT	WHL111, B2HB 35-125 OR APPROVED EQUIVALENT	116056.143	107615.69	120/1/60	WALL MOUNTED C/W LP GAS KIT. PROVIDE LOW WATER CUT-OFF SWITCH AND FLOW SWITCH. COORDINATE WITH STRUCTURAL FOR HANGING BOILERS TO THE WALL. ENSURE EQUIPMENT IS RATED FOR HIGH ALTITUDE OPERATION. HRV TO RUN CONTINUOUSLY.
B2	MECH ROOM	LOCHINVAR, VIESSMAN OR APPROVED EQUIVALENT	WHL111, B2HB 35-125 OR APPROVED EQUIVALENT	116056.143	107615.69	120/1/60	WALL MOUNTED C/W LP GAS KIT. PROVIDE LOW WATER CUT-OFF SWITCH AND FLOW SWITCH. COORDINATE WITH STRUCTURAL FOR HANGING BOILERS TO THE WALL. ENSURE EQUIPMENT IS RATED FOR HIGH ALTITUDE OPERATION. HRV TO RUN CONTINUOUSLY.

HRV SCHEDULE							
TAG	LOCATION	MANUFACTURER	MODEL	SUPPLY AIR FLOW (L/S)	SUPPLY E.S.P (Pa)	ELECTRICAL (V/PH/Hz)	REMARKS
HRV1	CEILING SPACE	VANEE, ALDES OR APPROVED EQUIVALENT	6L.C, H650-F1EC OR APPROVED EQUIVALENT	283.0 L/s	124	115/1/60, 5.7A, 640W	PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. MOUNT HORIZONTAL IN CEILINGS SPACE. PROVIDE ALUMINIUM CORE C/W AUTOMATIC RECIRC DEFROST CYCLE. DRAIN CONDENSATE TO NEAREST DRAIN. PROVIDE ACCESS AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE HRV CONTROLLER.
HRV2	CEILING SPACE	VANEE, ALDES OR APPROVED EQUIVALENT	6L.C, H650-F1EC OR APPROVED EQUIVALENT	283.0 L/s	124	115/1/60, 5.7A, 640W	PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. MOUNT HORIZONTAL IN CEILINGS SPACE. PROVIDE ALUMINIUM CORE C/W AUTOMATIC RECIRC DEFROST CYCLE. DRAIN CONDENSATE TO NEAREST DRAIN. PROVIDE ACCESS AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE HRV CONTROLLER.

PUMP SCHEDULE								
TAG	SERVICE	MANUFACTURER	MODEL	FLOW (L/S)	HEAD (kPa)	MOTOR POWER	ELECTRICAL (V/PH/Hz)	REMARKS
P1	BOILER INJECTION PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-40 F, 2400-40 OR APPROVED EQUIVALENT	1.021	29.98	102W	115/1/60	3 SPEED, INLINE, WET ROTOR CIRCULATOR. CONTROLLED BY BOILER CONTROLLER. SET PUMP ON MEDIUM SPEED.
P2	BOILER INJECTION PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-40 F, 2400-40 OR APPROVED EQUIVALENT	1.021	29.98	102W	115/1/60	3 SPEED, INLINE, WET ROTOR CIRCULATOR. CONTROLLED BY BOILER CONTROLLER. SET PUMP ON MEDIUM SPEED.
P3	IN-FLOOR HEATING PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.67	45	160W	115/1/60	MAINTAIN CONSTANT PRESSURE. SET PRESSURE SETPOINT TO 15FT OF HEAD FOR COMMISSIONING.
P4	IN-FLOOR HEATING STANDBY PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.67	45	160W	115/1/60	MAINTAIN CONSTANT PRESSURE. SET PRESSURE SETPOINT TO 15FT OF HEAD FOR COMMISSIONING.
P5	DOMESTIC WATER HEATER INJECTION PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.30	45	152W	115/1/60	INLINE WET ROTOR CIRCULATOR. PROVIDE TEKMAR 150 CONTROLLER TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT ON WATER HEATER. SET AT MEDIUM SPEED.
P6	DOMESTIC WATER HEATER STANDBY PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.30	45	152W	115/1/60	INLINE WET ROTOR CIRCULATOR. PROVIDE TEKMAR 150 CONTROLLER TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT ON WATER HEATER. SET AT MEDIUM SPEED.
P7	DOMESTIC WATER RECIRC PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UP 15-18B5, 006-BC4 OR APPROVED EQUIVALENT	0.18	29.98	85W	115/1/60	INLINE CIRCULATOR C/W TIMER AND AQUASTAT. SET AT MEDIUM SPEED

PLUMBING FIXTURE SCHEDULE											
TAG	FIXTURE	MANUFACTURE R	CAT. #	MODEL	ACCESSORIES	TRIM/SUPPLIES	TRAP	DRAIN	VENT	CW	HW
A	WALL HUNG WATER CLOSET (ADA)	AMERICAN STANDARD, TOTO OR APPROVED...	2856.128	APWALL MILLENIUM FLOWISE, 381mm HEIGHT, 1.28 Gpf, ELONGATED SEAT, FLUSHOMETER MANUAL FLUSH VALVE, ADA COMPLIANT, MODEL 3461.001	SOLID PLASTIC, OPEN FRONT, WHITE SEAT, BOLTS, NUTS AND CAPS, FLEXIBLE HOSE C/W STOPS ON SUPPLIES	MANUAL FLUSH VALVE AMERICAN STANDARD MODEL 6047.121	INTEGRAL	75	38	25	-
B	WALL HUNG LAVATORY	AMERICAN STANDARD, TOTO OR APPROVED EQUIVALENT	0955.000	MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY, HOLES ON 102mm CENTERS, ADA COMPLIANT	KNEE GUARD 0059 020, STOPS ON ALL SUPPLIES	TOTO TEL105 SERIES C/W ECOPOWER, CONTROL MODULE AND MIXING VALVE. ENSURE CONTROL MODULE IS INSTALLED RECESSED.	P-TRAP	40	32	15	15
C	MOP SINK	FIAT, KINDRED OR APPROVED EQUIVALENT	MSB-2424	MOLDED-STONE MOP SERVICE BASSIN	STAINLESS STEEL DRAIN, STAINLESS STEEL BUMPER GUARDS	CRANE 830AA WALL MOUNTED C/W PAIL HOOK, VACUUM BRAKER, HOSE CONNECTION, 1200mm HOSE	P-TRAP	75	40	15	15
D	WATER FOUNTAIN	ELKAY, HAWS OR APPROVED EQUIVALENT	EZS8WSSK	115/1/60, 5A FLA, 370W, c/w bottle filling station. Stops on supplies	STOPS ON SUPPLIES	N/A	P-TRAP	40	32	20	20
CONFIRM ALL PLUMBING FIXTURES WITH ARCHITECT, OWNER AND INTERIOR DESIGNER.											



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4	99% REVIEW	18-10-03
3	90% REVIEW	18 08 17
2	60% REVIEW	18 06 08
1	30% REVIEW	18 03 23

Revision / Revision	Description / Description	Date / Date
Client / client		



Project title/Titre du projet

ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

Approved by/Approuve par MB
Designed by/Concept par DL
Drawn by/Dessine par DL
Project Manager/Administrateur de Projets
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie
Client / client Parks Canada
Drawing title / Titre du dessin

MECHANICAL SCHEDULES

Project No. / No. du project CAI 752	Sheet / Feuille M6	Revision no. / La Révision no.
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ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

TENDER  
18/12/13

SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
LIGHTING LEGEND		
	RECESSED DOWNLIGHT LUMINAIRE, TYPE XX	SEE SCHEDULE
	PENDANT LUMINAIRE, TYPE XX	SEE SCHEDULE
	WALL SCONCE LUMINAIRE, TYPE XX	SEE SCHEDULE
	SURFACE MOUNTED STRIP LUMINAIRE	SEE SCHEDULE
	EXTERIOR POLE LUMINAIRE (SINGLE HEAD), TYPE XX	SEE SCHEDULE
	EXTERIOR POLE LUMINAIRE (DOUBLE HEAD), TYPE XX	SEE SCHEDULE
	WALL MOUNTED EXIT LIGHT	SEE SCHEDULE
	CEILING MOUNTED EXIT LIGHT	SEE SCHEDULE
	EXIT LIGHT C/W BATTERY PACK & REMOTE HEADS	SEE SCHEDULE
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEADS	SEE SCHEDULE
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEADS	SEE SCHEDULE
	WALL MOUNTED BATTERY PACK C/W REMOTE HEADS	SEE SCHEDULE
	SINGLE POLE SWITCH	48in/1220mm
	3-WAY SWITCH	48in/1220mm
	SINGLE POLE SWITCH 'a' - SEE CIRCUIT FOR CONTROL	48in/1220mm
	1500W DIMMER SWITCH	48in/1220mm
	MASTER SWITCH - MULTIPLE SINGLE POLE SWITCHES	48in/1220mm
	OCCUPANCY SENSOR - SEE LUMINAIRE SCHEDULE	CEILING
	OCCUPANCY SENSOR - SEE LUMINAIRE SCHEDULE	WALL MOUNTED SEE SCHEDULE
	DAYLIGHT SENSOR	CEILING
	WALL MOUNTED PHOTO CELL	SEE SCHEDULE
POWER LEGEND		
	DUPLEX RECEPTACLE - 120V/15A (5-15R)	12in/305mm OR AS NOTED
	FOURPLEX RECEPTACLE - 120V/15A (5-15R)	12in/305mm OR AS NOTED
	FOURPLEX RECEPTACLE - 120V/20A (5-20R)	12in/305mm OR AS NOTED
	GFCI DUPLEX RECEPTACLE - 120V/15A (5-15RA)	12in/305mm OR AS NOTED
	DUPLEX RECEPTACLE - 120V/20A (5-20R)	12in/305mm OR AS NOTED
	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING
	GFCI DUPLEX RECEPTACLE - 120V/20A (5-20RA)	12in/305mm OR AS NOTED
	GFCI FOURPLEX RECEPTACLE - 120V/20A (5-15RA)	12in/305mm OR AS NOTED
	GFCI FOURPLEX RECEPTACLE - 120V/20A (5-20RA)	12in/305mm OR AS NOTED
	GFCI FOURPLEX RECEPTACLE - SWITCHED	12in/305mm OR AS NOTED
	USB DUPLEX RECEPTACLE - 120V/15A	12in/305mm OR AS NOTED
	USB DUPLEX RECEPTACLE - 120V/20A	12in/305mm OR AS NOTED
	USB FOURPLEX RECEPTACLE - 120V/15A	12in/305mm OR AS NOTED
	USB FOURPLEX RECEPTACLE - 120V/20A	12in/305mm OR AS NOTED
	DUPLEX RECEPTACLE - SWITCHED	12in/305mm OR AS NOTED
	PARKING LOT DUPLEX RECEPTACLE IN POST	SEE DETAIL
	PARKING LOT SINGLE RECEPTACLE IN POST	SEE DETAIL
	ISOLATED GROUND RECEPTACLE	12in/305mm OR AS NOTED
	DATA OUTLET (2PORT WITH 2 DATA LINE)	12in/305mm OR AS NOTED
	DATA OUTLET (4PORT WITH 4 DATA LINE)- NUMBER(4) INDICATES NUMBER OF PORTS(4) AND NUMBER OF DATA LINE(4)	12in/305mm OR AS NOTED
	VOICE AND DATA COMM. OUTLET (2PORT WITH 2 DATA LINE)	12in/305mm OR AS NOTED
	2 VOICE AND 2 DATA COMM. OUTLET (4PORT WITH 4 DATA LINE)	12in/305mm OR AS NOTED
SYMBOL	DESCRIPTION	MOUNTING
POWER LEGEND		
	TELEPHONE OUTLET (2 PORT WITH 2 DATA LINE)	12in/305mm OR AS NOTED
	TELEVISION OUTLET (HDMI AND COAX)	12in/305mm OR AS NOTED
	VACUUM OUTLET	
	SECURITY CAMERA	SEE DRAWING
	SPECIAL RECEPTACLE	12in/305mm OR AS NOTED
	HARDWIRED CONNECTION	12in/305mm OR AS NOTED
	DISCONNECT SWITCH	60in/1525mm OR AS NOTED
	JUNCTION BOX	
	MOTOR	
	SPEAKER	CEILING
	CEILING FAN	
	RADIANT HEATER	

	BASEBOARD HEATER	
	FORCE FLOW HEATER	
	ELECTRICAL PANEL - SEE PANEL SCHEDULE	
	TELEPHONE TERMINAL BOARD	
	TRANSFORMER	
FIRE ALARM LEGEND		
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM SMOKE DETECTOR	CEILING
	FIRE ALARM HEAT DETECTOR	CEILING
	FIRE ALARM MANUAL PULL STATION	54in/1532mm
	FIRE ALARM COMBINATION HORN-STROBE	84in/2134mm
	FIRE ALARM STROBE	84in/2134mm
	FIRE ALARM HORN	84in/2134mm
	FIRE ALARM SPEAKER	84in/2134mm
	FIRE ALARM COMBINATION SPEAKER STROBE	84in/2134mm
	FIRE ALARM SPRINKLER TAMPER SWITCH	
	FIRE ALARM SPRINKLER FLOW SWITCH	
	FIRE ALARM COMBINATION BELL-STROBE	84in/2134mm
	MINI SUITE HORN C/W HORN SILENCE	84in/2134mm
	SMOKE ALARM C/W INTEGRAL CO DETECTOR	84in/2134mm
	WEATHERPROOF FIRE ALARM HORN-STROBE	
	FIRE ALARM ISOLATION MODULE	
TAGS/OTHER		
	LUMINAIRE TAG - SEE LUMINAIRE SCHEDULE	
	ABOVE FINISHED FLOOR	
	ABOVE COUNTER	
	NIGHT LIGHT - CIRCUIT TO NIGHT LIGHT BREAKER	
	EXISTING TO REMAIN	
	REMOVE	
	RELOCATE	
	PANEL 'A', CIRCUIT XX	
	CIRCLE DENOTES CEILING MOUNTED DEVICE	
	SQUARE DENOTES FLOOR MOUNTED DEVICE	
	EQUIPMENT TAG - SEE SCHEDULES	
MOUNTING IS INDICATED FROM FINISHED FLOOR TO CENTER OF DEVICE. MOUNTING HEIGHTS INDICATED ON DRAWINGS OR SPECIFICATIONS HAVE PRECEDENCE OVER THIS LEGEND. ANY UNLISTED MOUNTING HEIGHTS TO BE CONFIRMED PRIOR TO INSTALLATION.		

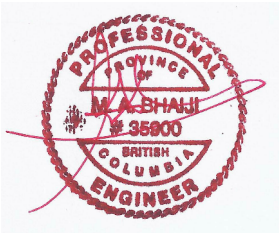
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Sheet Number	Sheet Name
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E0	ELECTRICAL LEGEND
E0S1	ELECTRICAL SITE PLAN
E1	FLOOR PLAN - LIGHTING
E2	FLOOR PLAN - POWER & AUXILIARY
E3	ELECTRICAL SCHEDULES
E4	ELECTRICAL DETAILS



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1	30% REVIEW	18-03-23

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FACILITY AND DAY USE  
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Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
Parks Canada

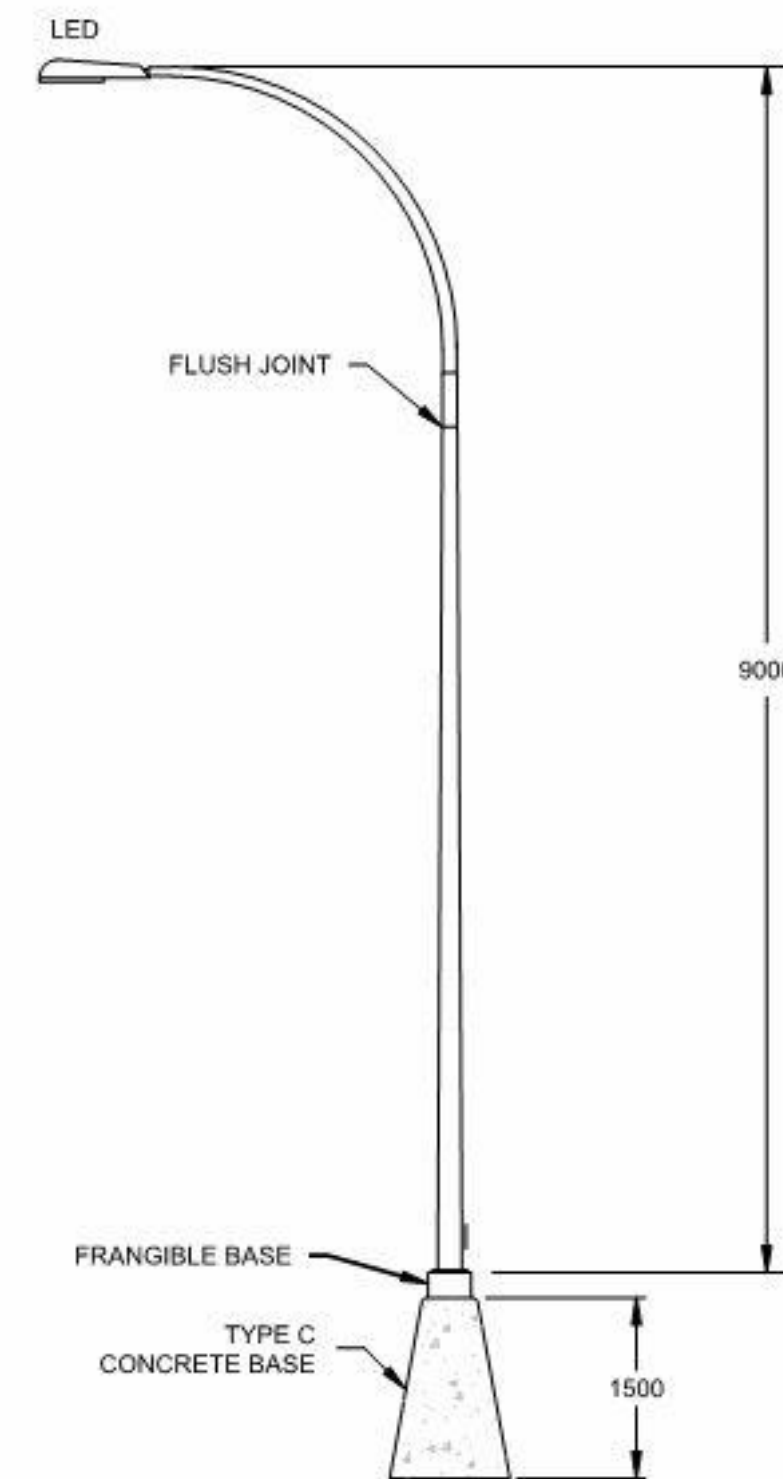
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ELECTRICAL LEGEND

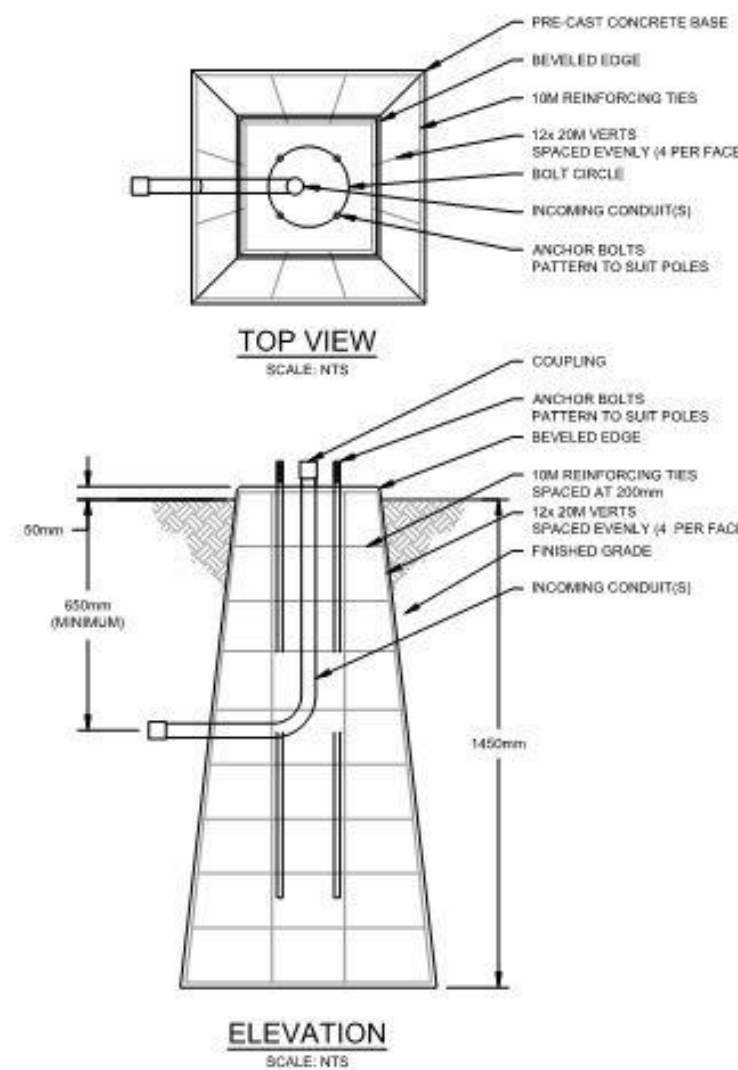
Project No. / No. du project CAI 752	Sheet / Feuille E0	Revision no. / La Révision no.
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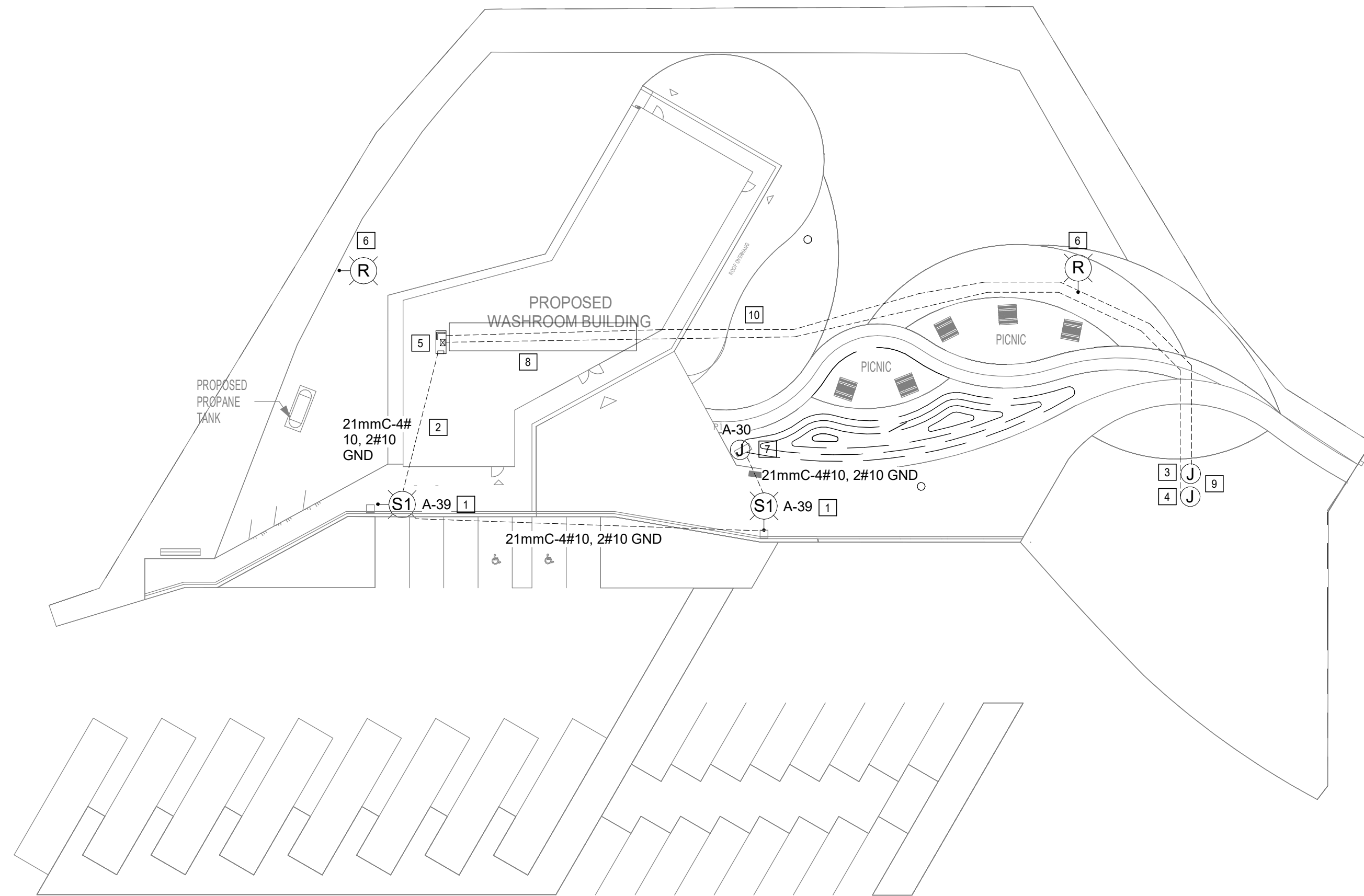




2 SINGLE POLE ELEVATION  
E0S1 1 : 100



3 POLE BASE DETAIL  
E0S1 1 : 100



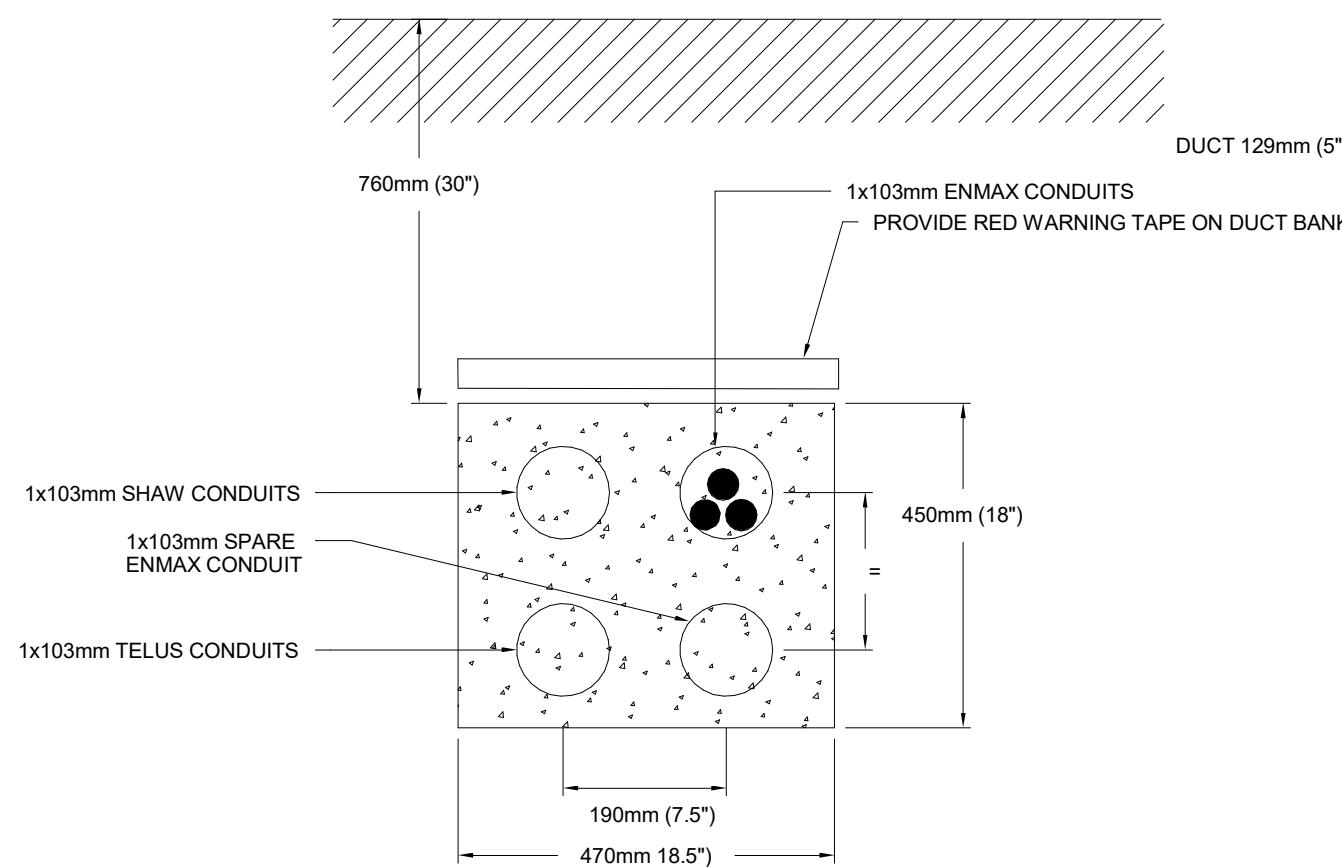
1 ELECTRICAL SITE PLAN  
E0S1 1 : 300

#### GENERAL NOTES

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. WHERE DISCREPANCIES ARE FOUND, THEY SHOULD BE BROUGHT FORWARD PRIOR TO TENDER CLOSE.
2. CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.
3. ASHRAE 2010, BC BUILDING CODE 2012, CANADIAN ELECTRICAL CODE 2015, NATIONAL BUILDING CODE 2015 AND ALL APPLICABLE CODES APPLY.

#### NOTES

1. SEE DETAIL 02/E0S1 AND 03/E0S1 FOR POLE AND POLE BASE DETAILS. LUMINAIRE SPECIFICATION AND MOUNTING HEIGHT TO BE CONFIRMED BY PCA DEPARTMENTAL REPRESENTATIVE. LUMINAIRES TO BE CONTROLLED BY EXTERIOR PHOTOCELL/TIMECLOCK- SEE DETAIL 01/E4.
2. CONDUIT TO RUN UNDERGROUND TO ELECTRICAL ROOM.
3. PCA PROVIDED POWER PULLBOX LOCATION. UTILIZE EXISTING 103mmC CONDUIT. PROVIDE 4#3 RW90XL CU WIRING FROM PULLBOX TO TRANSFORMER IN ELECTRICAL ROOM. COORDINATE EXACT PULLBOX LOCATION.
4. PCA PROVIDED COMMUNICATIONS PULLBOX LOCATION. UTILIZE EXISTING 78mmC CONDUIT TO TELEPHONE TERMINAL BOARD IN ELECTRICAL ROOM. COORDINATE EXACT PULLBOX LOCATION.
5. ELECTRICAL ROOM LOCATION.
6. EXISTING LIGHTING STANDARD TO BE REMOVED AND DISPOSED OF. REMOVE UNDERGROUND UNUSED CONDUIT/WIRING, DISPOSE AND MAKE INSTALLATION SAFE. COORDINATE WITH PCA DEPARTMENTAL REPRESENTATIVE.
7. PROVIDE JUNCTION BOX FOR FUTURE SIGNAGE LOCATION. PROVIDE 21mmC-2#10 CU CONDUIT FROM JUNCTION BOX TO WASHROOM BUILDING.
8. PROVIDE CONCRETE ENCASEMENT FOR CONDUIT UNDER BUILDING. SEE DETAIL 04/E0S1.
9. EXISTING POWER & COMMUNICATION CONDUIT TO PULLBOXES TO REMAIN. COORDINATE WITH CIVIL DRAWINGS.
10. CONTRACTOR TO CONFIRM BURIAL DEPTH OF POWER LINE AND COMMUNICATIONS TRENCH WITH AUTHORITY HAVING JURISDICTION.



4 DUCT BANK DETAIL  
E0S1 NTS

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Revision / Revision	Description / Description	Date / Date
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Client / client



Project title/Titre du projet

#### ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par  
Approver

Designed by/Concepté par  
Designer

Drawn by/Dessiné par  
Author  
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
Parks Canada

Drawing title / Titre du dessin

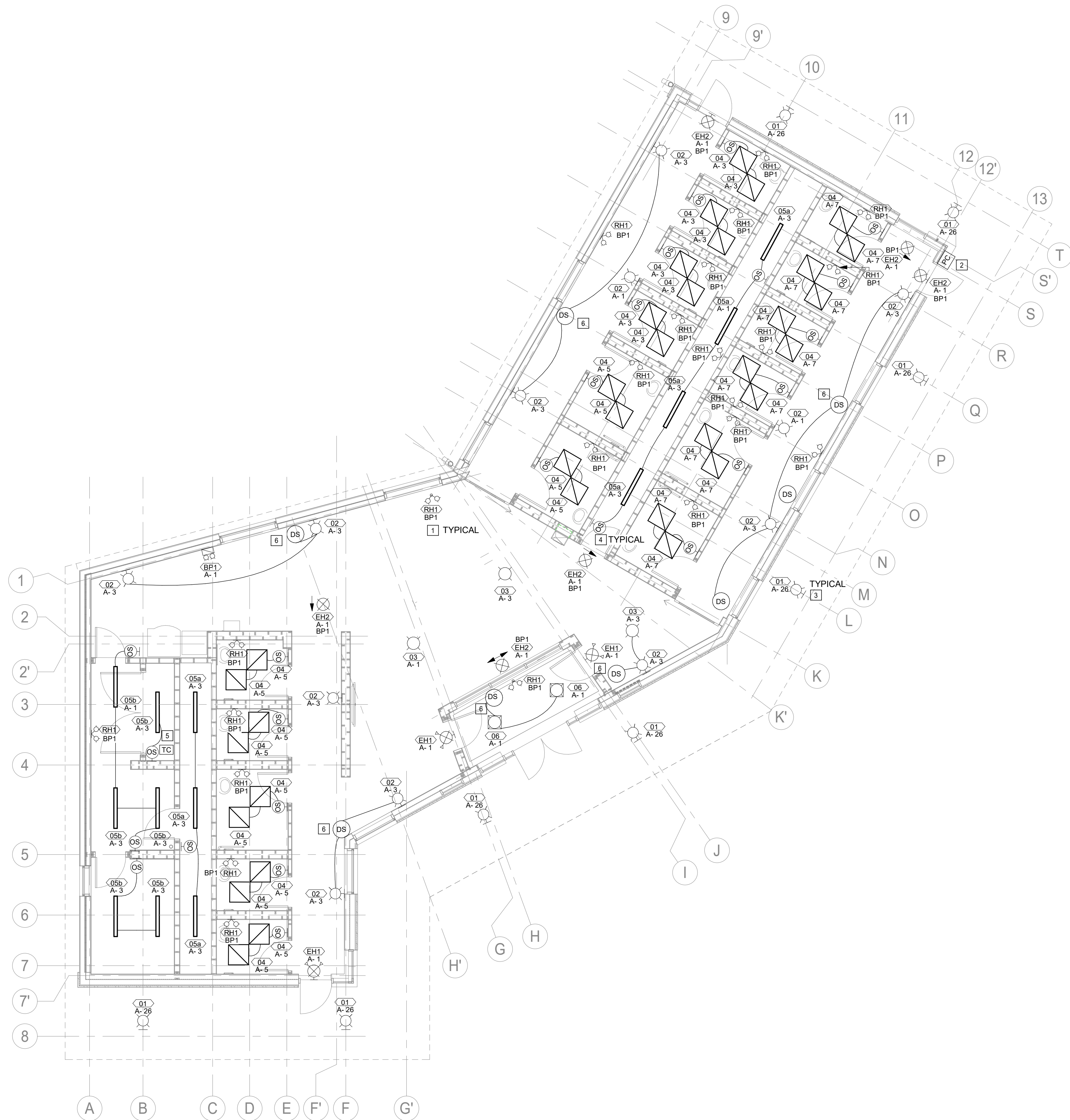
ELECTRICAL SITE PLAN

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
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CAI 752

E0S1





01 FLOOR PLAN - LIGHTING  
E1 1 : 75

GENERAL NOTES

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. WHERE DISCREPANCIES ARE FOUND, THEY SHOULD BE BROUGHT FORWARD PRIOR TO TENDER CLOSE.
2. CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.
3. ASHRAE 2010, BC BUILDING CODE 2012, CEC 2015, NATIONAL BUILDING CODE AND ALL APPLICABLE CODES APPLY.

NOTES

1. PROVIDE MINIMUM #10 DC WIRING FOR ALL EMERGENCY REMOTE HEADS. INCREASE CONDUCTOR SIZE AS REQUIRED TO NEGATE VOLTAGE DROP AS PER THE C.E.C.
2. PROVIDE REQUIRED PHOTOCELL MOUNTED ON WALL FOR EXTERIOR LIGHTING CONTROL. REFER TO EXTERIOR LIGHTING CONTROL SCHEMATIC DETAIL 02/E4.
3. EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL-TIMECLOCK. REFER TO EXTERIOR LIGHTING CONTROL SCHEMATIC DETAIL 02/E4. LUMINAIRES TO BE MOUNTED AT 8FT ABOVE GROUND ON STRUCTURAL COLUMNS.
4. WALL MOUNT MANUAL ON/AUTO OFF OCCUPANCY SENSOR TO CONTROL LUMINAIRES AS INDICATED. SET TIMER TO 10 MIN DELAY.
5. PROVIDE INTERIOR TIME CLOCK TO CONTROL ALL LIGHTING. INTERLOCK ALL LUMINAIRES WITH INTERIOR TIMECLOCK. SEE DETAIL 03/E4.
6. PROVIDE DAYLIGHT SENSOR TO CONTROL LIGHTING NEAR WINDOWS AS INDICATED. LIGHTING TO BE DIMMED TO 50% WHEN DAYLIGHT IS SENSED.



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FACILITY AND DAY USE  
AREA

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MB

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DK

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FT  
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Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

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FLOOR PLAN - LIGHTING

Project No. / No. du  
project

CAI 752

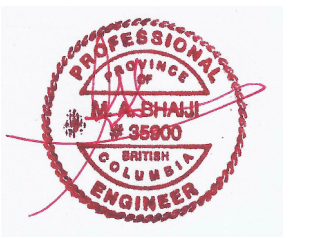
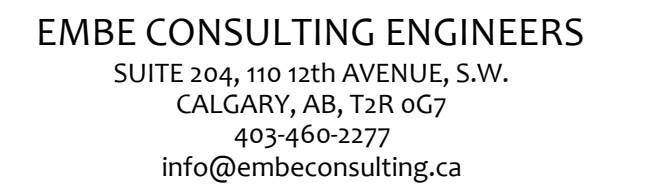
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E1

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no.







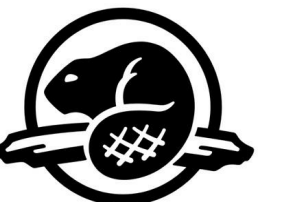
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2. CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.

3. ASHRAE 2010, BC BUILDING CODE 2012, CEC 2015, NATIONAL BUILDING CODE AND ALL APPLICABLE CODES APPLY.

- 1 PROVIDE NEW 120/208V, 3PH, 4W, 400A, 84CCT PANEL A CW INTEGRAL BREAKER. MAINTAIN CLEARANCE AS PER C.E.C 2018. PROVIDE NEW BREAKERS AS INDICATED ON PANEL SCHEDULE. SEE SINGLE LINE DIAGRAM 01/E4 FOR DETAILS.
- 2 PROVIDE RECEPTACLE AND DATA CONNECTION FOR RECEPTION TV AT 60" AFF. CONFIRM EXACT LOCATION ON SITE.
- 3 PROVIDE JUNCTION BOX FOR SIGNAGE. INTERLOCK WITH EXTERIOR TIME CLOCK. SEE DETAIL 02/E4. CONFIRM EXACT LOCATION ON SITE.
- 4 PROVIDE DATA FOR WIFI CONNECTION. COORDINATE REQUIREMENTS ON SITE.
- 5 PROVIDE 15A RECEPTACLE FOR VENDING MACHINE. COORDINATE REQUIREMENTS WITH VENDING MACHINE SUPPLIER.
- 6 PROVIDE 15A RECEPTACLE AND DATA FOR TELEPHONE. COORDINATE REQUIREMENTS ON SITE.
- 7 NOT USED.
- 8 PROVIDE VOICE/DATA, HARDWIRED TELEPHONE CONNECTION, SECURITY RECEPTACLES AND EXTRA RECEPTACLES FOR MECHANICAL EQUIPMENT COORDINATION. COORDINATE WITH MECHANICAL CONTRACTOR.
- 9 PROVIDE 3/4"x4"x3" TELEPHONE TERMINAL BOARD CW PLYWOOD BACKING PAINTED WITH FIRE RETARDANT PAIN. UTILIZE EXISTING 3" CONDUIT FROM PULLBOX SEE SITE PLAN FOR DETAILS.
- 10 PROVIDE 120V JUNCTION BOX FOR SITE LIGHTING. COORDINATE SITE LIGHTING WITH LANDSCAPE.
- 11 PROVIDE 20A JUNCTION BOX FOR HAND DRYER. CONFIRM EXACT LOCATION AND SPECIFICATION.
- 12 PROVIDE 3P-100AF/3P-90AT DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM FOR DETAILS.
- 13 PROVIDE 75KVA 800-208V STEP DOWN FLOOR MOUNTED TRANSFORMER. MAINTAIN CLEARANCE AS PER C.E.C 2018. SEE SINGLE LINE DIAGRAM FOR DETAILS.
- 14 PROVIDE UTILITY METER. SEE SINGLE LINE DIAGRAM FOR DETAILS.
- 15 PROVIDE ELECTRICAL CONNECTION & PUSH BUTTON FOR HANDICAP DOOR OPENER. COORDINATE WITH HARDWARE SUPPLIER PRIOR TO ROUGH-IN. DEVICES TO BE MOUNTED ON MULLION, ONLY RIGHT LEAF WILL BE ACTIVATED.
- 16 PROVIDE JUNCTION BOX FOR SPEAKER LOCATIONS, CEILING SPEAKER MODEL NO: POLK AUDIO 70 RT FULL RANGE DUAL-POR IN-CEILING LOUDSPEAKER OR EQUIV. THAT TO BE APPROVED BY DEPARTMENT REP. CONFIRM EXACT WALL MOUNTED SPEAKER MODEL NUMBER WITH DEPARTMENTAL REP. COORDINATE ALL SPEAKER WIRING ACCORDING TO MANUFACTURER MAKE AND MODEL INSTRUCTIONS. COORDINATE WALL MOUNTED SPEAKER MOUNTING HEIGHTS.
- 17 PROVIDE DEDICATED OUTLET FOR STEREO SYSTEM. COORDINATE ALL STEREO EQUIPMENT LOCATION AND REQUIREMENTS WITH SPEAKER SYSTEM CONTRACTOR.
- 18 COORDINATE EXACT PUMP LOCATIONS WITH MECHANICAL CONTRACTOR.

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Parks Canada	Parcs Canada
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AREA**

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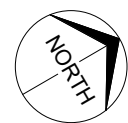
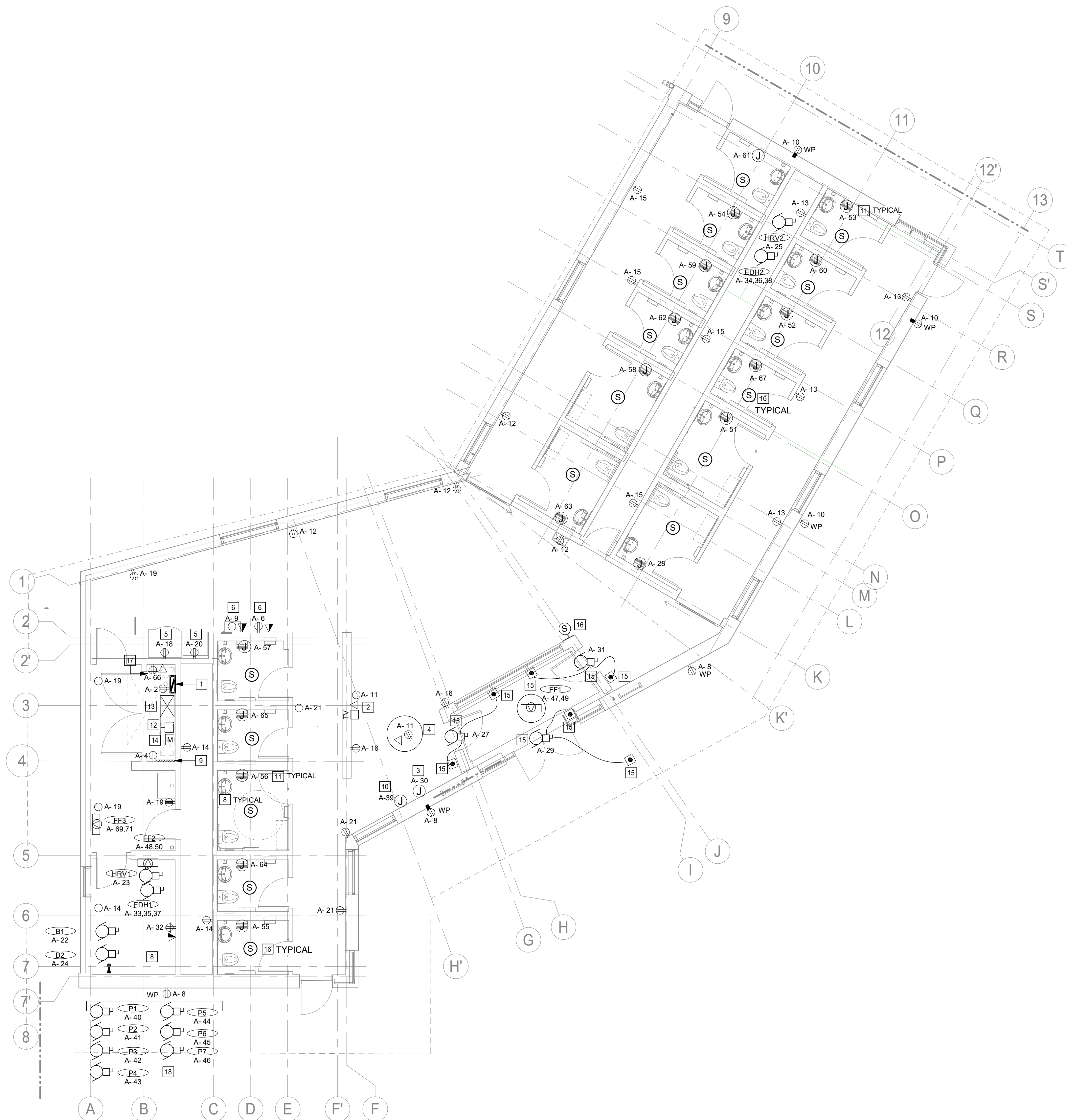
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FLOOR PLAN - POWER &amp; AUXILIARY

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CAI 752	E2	



01 FLOOR PLAN - POWER & AUXILIARY  
E2 1 : 75









CALCULATIONS FOR LIGHTING POWER ALLOWANCES FOR GENERAL EXTERIOR BUILDINGS									
EXTERIOR APPLICATION	ZONE	X: BASIC SITE ALLOWANCES	A: NUMBER OF LUMINAIRES	B: TOTAL WATTS PER LUMINAIRE	C = B X A: CONNECTED EXTERIOR LIGHTING POWER	D: AREA	E: LIGHTING POWER ALLOWANCE FOR EXTERIOR APPLICATION	F = D X E: GENERAL EXTERIOR LIGHTING POWER ALLOWANCE	G = F + X (IF NEEDED): TOTAL EXTERIOR LIGHTING POWER ALLOWANCE
UNCOVERED PARKING AREAS	3	750 W	8	60W	480	1259 SQFT	0.1 W/SQFT	126	876
IF CONNECTED EXTERIOR LIGHTING POWER ≤ TOTAL EXTERIOR LIGHTING POWER ALLOWANCE THEN EXTERIOR LIGHTING POWER IS COMPLIANT WITH THE PRESCRIPTIVE PATH									

LUMINAIRE SCHEDULE									
TAGS	DESCRIPTION	MOUNTING	LOAD	LAMP	COLOR TEMP	MANUFACTURER			
01	EXTERIOR WALL PACK	WALL +8FT	60W/120VAC	60W LED	5000K	STANPRO MODEL NO. WPS-LC31-50K			
02	WALL SCONCE	WALL +8FT	8W/120VAC	8W LED	3000K	EUREKA LIGHTING MODEL NO. 3430-LED 8-3-120V-DM1-WH			
03	PENDANT LIGHTS	SUSPENDED	4W/120VAC	4W LED	3000K	EUREKA LIGHTING MODEL NO. 4064-LED 4-3-17-120V-DV-S6-36-RC-SCA-WH-CHR-BLKA-BLKA			
04	24 LUMINAIRE	RECESSED	27W/120VAC	27W LED	3000K	PHILIPS LIGHTING MODEL NO. 2F2K-30K-840-DF-UVI			
05a	LED STRIP LUMINAIRE	SUSPENDED	15W/120VAC	15W LED	3000K	LITHONIA LIGHTING MODEL NO. ZL1N-L24-1500LM-MVOLT-30K CW ZACVH			
05b	LED STRIP LUMINAIRE	SURFACE	15W/120VAC	15W LED	3000K	LITHONIA LIGHTING MODEL NO. ZL1N-L24-1500LM-MVOLT-30K			
06	DOWNLIGHT LUMINAIRE	RECESSED	12.8W/120VAC	12.8W LED	3000K	LITHONIA LIGHTING MODEL NO. LDNS-30/10-0.06-WR-L-S-MVOLT			
BP1	EMERGENCY LIGHTING BATTERY PACK CW DOUBLE LAMP AND 120VAC INPUT	WALL 84INx2134mm	144W/120VAC	144W LED	-	STANPRO MODEL NO. SLC-12-144-2M-4LR-WH			
EH1	GREEN RUNNING MAN EXIT SIGN CW REMOTE HEADS	CEILING/WALL 84INx2134mm	0.9W/120VAC 1.9W/120VDC	2X4W LED	-	STANPRO MODEL NO. PRMS-1236-2N4LJ			
EH2	EDGEKIT EXIT SIGN	CEILING/WALL 84INx2134mm	2W/120VAC	-	-	STANPRO MODEL NO. RMEA-0-WH-UDD. SEE FLOOR PLAN FOR EXIT SIGN DIRECTION.			
RH1	REMOTE HEAD	6" BELOW CEILING	8W/120VAC	2X4W LED	-	STANPRO MODEL NO. M-0.06-24-4W-LA-WH			
S1	EXTERIOR POLE LUMINAIRE	MATCH EXISTING POLE LUMINAIRE HEIGHTS	129W/120VAC	129W LED	4000K	EATON LIGHTING GLEON GALEON MODEL NO. GLEON-AF-02-E1-5MQ-BK-1200. COORDINATE EXACT FINISH, FINISHING HEIGHT AND SPECIFICATION WITH PARKS CANADA DEPARTMENTAL REPRESENTATIVE PRIOR TO ORDER.			




Parks Canada  
Government Services  
Canada




Parks Canada  
Services gouvernementaux  
Canada

PROJECT DELIVERY SERVICES WEST  
Strategic Policy and Investment Directorate  
EXÉCUTION DE PROJETS DE L'OUEST  
Direction générale des Politiques stratégiques  
et d'investissement




**EMBE**  
Innovative Sustainable

**EMBE CONSULTING ENGINEERS**  
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7	ISSUED FOR TENDER	18-12-13
6	99% REVIEW	18-10-26
5	99% REVIEW	18-10-19
4	99% REVIEW	18-10-03
3	90% REVIEW	18-08-17
2	60% REVIEW	18-06-08
1	30% REVIEW	18-03-23

Revision / Révision	Description / Description	Date / Date
Client / client		



Parks Canada



Parcs Canada

Project title/Titre du projet

**ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA**

Approved by/Approuvé par  
MB

Designed by/Concepté par  
DK

Drawn by/Dessiné par  
FT

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie

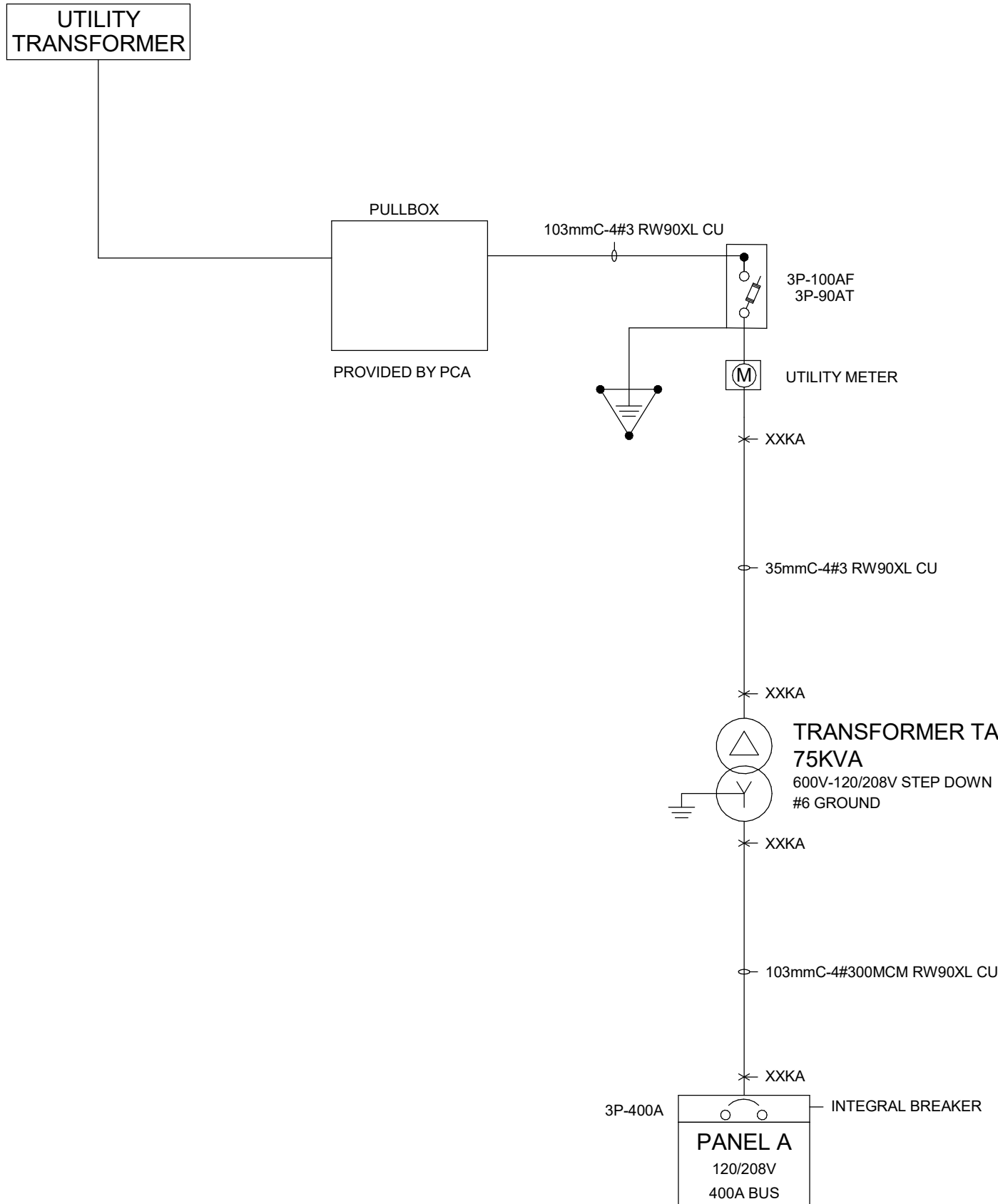
Client / client  
**Parks Canada**

Drawing title / Titre du dessin

**ELECTRICAL SCHEDULES**

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	E3	





1

E4

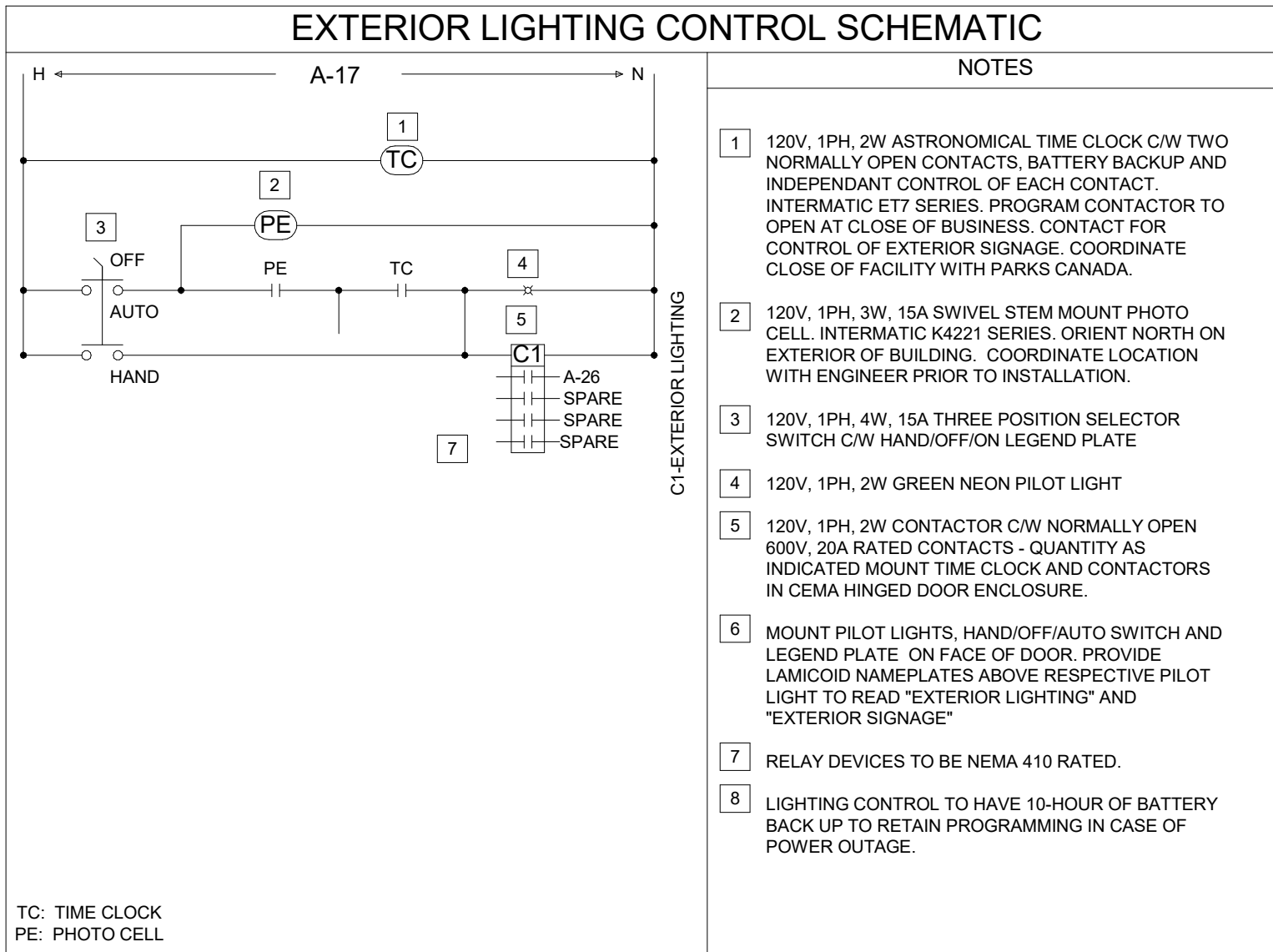
SINGLE LINE DIAGRAM

1 : 75

SINGLE LINE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
UTILITY TRANSFORMER	PAD MOUNT TRANSFORMER. PROVIDE THE FOLLOWING <ul style="list-style-type: none"><li>PAD</li><li>PROTECTIVE BOLLARDS/GUARDRAIL</li><li>BLAST WALL (IF NECESSARY)</li><li>SECONDARY CONDUIT AND WIRING</li><li>GROUND GRID AND GROUND TEST PER UTILITY REQUIREMENTS</li></ul>
	CONFIRM ALL REQUIREMENTS SET OUT BY UTILITY.
PANEL XX 120/208V 225A BUS	PANEL. SEE PANEL SCHEDULE FOR EXACT REQUIREMENTS.
PANEL XX 120/208V 225A BUS	PANEL C/W INTEGRAL MAIN BREAKER. SEE PANEL SCHEDULE FOR EXACT REQUIREMENTS.
	DELTA/WYE CLASS H TRANSFORMER C/W COPPER WINDINGS (ALUMINUM WINDING NOT ACCEPTABLE). VOLTAGE/KVA RATING AS INDICATED. SEE NOTES/SINGLE LINE WHERE ALTERNATE TYPE TRANSFORMER IS REQUIRED.
	GROUND GRID. SEE GROUNDING DETAIL AND/OR SPECIFICATIONS.
	SYSTEM/EQUIPMENT GROUND
	DEMAND METER AND ENCLOSURE TO UTILITY REQUIREMENTS. PROVIDE AND WIRING TO UTILITY CT/PT COMPARTMENTS PER UTILITY REQUIREMENTS.
	CIRCUIT BREAKER C/W GROUND FAULT SHUNT TRIP
	CIRCUIT BREAKER. RATING AS INDICATED.
	FUSED DISCONNECT (3P-100AF/100A INDICATES 100A FRAME WITH 100A FUSES)
	COMBINATION FUSED DISCONNECT AND UTILITY DEMAND METER ASSEMBLY TO UTILITY REQUIREMENTS.
XXXKA	CALCULATED AVAILABLE FAULT CURRENT
XXX	CONDUIT AND WIRE SIZES

NOTES

- EQUIPMENT/OVERCURRENT DEVICES MAY BE SERIES RATED FOR INTEGRATED EQUIPMENT RATING (IER). CONTRACTOR TO PROVIDE LAMICOID LABELS ON ALL EQUIPMENT INDICATING SUCH RATING.
- SPECIFIED EQUIPMENT IS MANUFACTURED BY SEIMENS. DIMENSIONS OF EQUIPMENT BASED UPON SEIMENS. ALTERNATIVE MANUFACTURERS ARE SCHNEIDER AND CUTLER HAMMER. CONTRACTOR TO SUBMIT ROOM LAYOUTS WITH NEW DIMENSIONS TO ENGINEER FOR APPROVAL OF ALTERNATIVE EQUIPMENT.
- ALL CONDUCTORS INDICATED ARE RW90XL-1000V-COPPER. SEE FOLLOWING NOTES.
- ALUMINUM CONDUCTORS #3/0 AWG AND LARGER MAY BE UTILIZED IN LIEU OF COPPER. CONTRACTOR TO CONTACT AND OBTAIN PERMISSION FROM ENGINEER PRIOR TO TENDER CLOSING AND INSTALLATION. CONTRACTOR TO MODIFY CONDUIT SIZES TO SUIT. CONTRACTOR TO RECORD CHANGES ON AS-BUILT DWGS. ALUMINUM CONDUCTOR AMPACITY MUST BE EQUAL TO OR GREATER THAN THAT OF COPPER CONDUCTOR AMPACITY.
- CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.
- BELOW GRADE CONDUITS TO BE RIGID PVC UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ABOVE GRADE CONDUITS TO BE ELECTRICALLY METALLIC TUBING (EMT) OR RIGID STEEL UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ALL CONDUITS TERMINATING AT TRANSFORMERS, MOTORS, VIBRATING EQUIPMENT TO BE WATERPROOF SEALED FLEXIBLE CONDUIT UNLESS SPECIFICALLY INDICATED OTHERWISE.
- PROVIDE GROUND CONDUCTORS IN ALL BELOW GRADE CONDUITS AND IN ABOVE GRADE CONDUITS AS REQUIRED BY THE CANADIAN ELECTRICAL CODE.
- PROVIDE COORDINATION STUDY FOR ALL OVERCURRENT DEVICES. SET DEVICES AS DETERMINED FROM THE STUDY. UTILIZE EQUIPMENT MANUFACTURER AND/OR INDEPENDENT AGENCY.

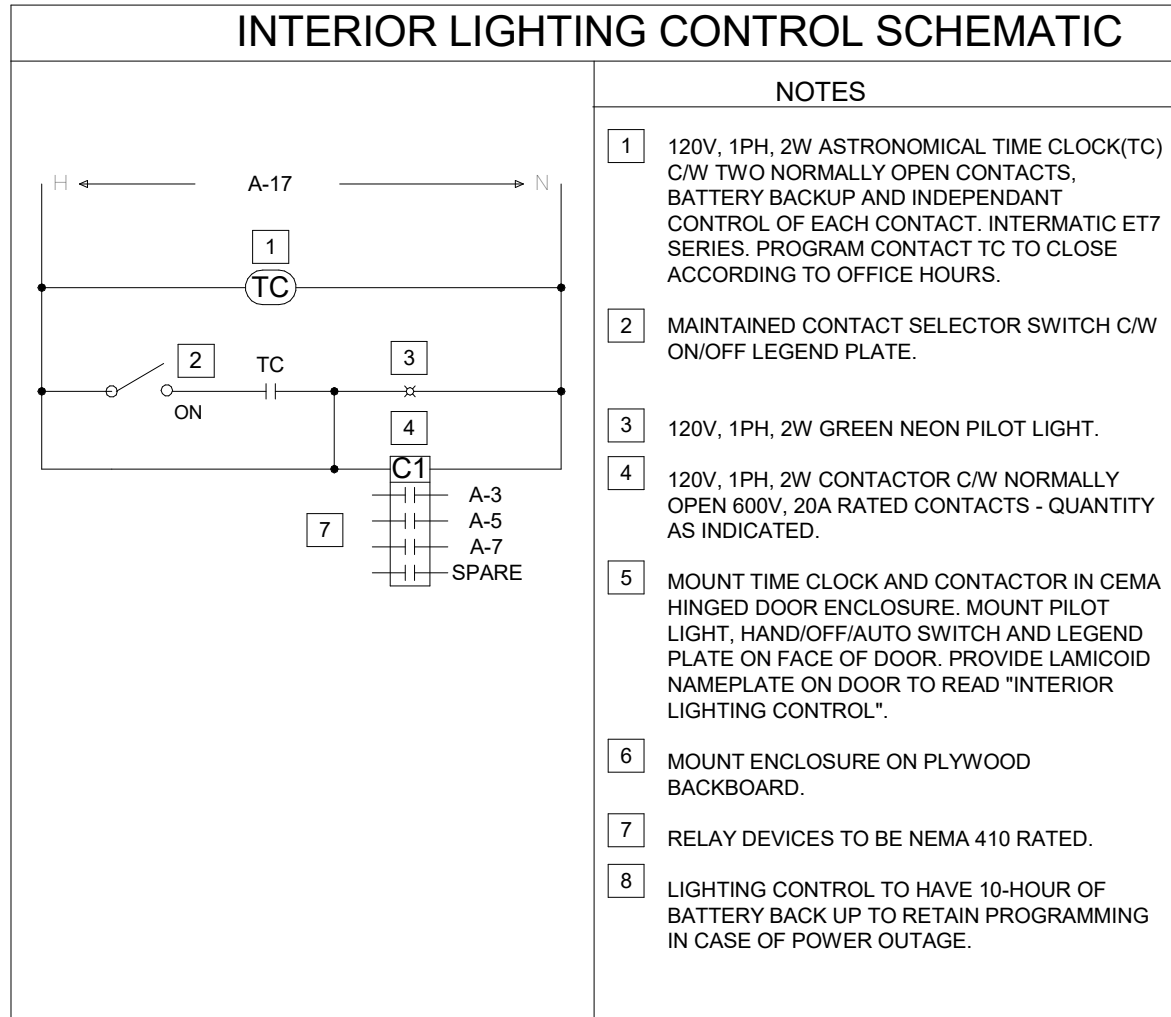


2

E4

EXTERIOR LIGHTING CONTROL

N.T.S.

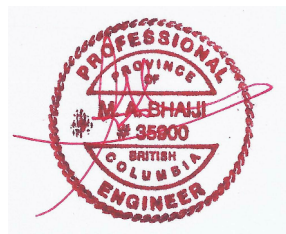


3

E4

INTERIOR LIGHTING CONTROL

N.T.S.



7	ISSUED FOR TENDER	18-12-13
6	99% REVIEW	18-10-26
5	99% REVIEW	18-10-19
4	99% REVIEW	18-10-03
3	90% REVIEW	18 08 17
2	60% REVIEW	18 06 08
1	30% REVIEW	18 03 23

Revision / Revision	Description / Description	Date / Date
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Client / client

Project title/Titre du projet

ROGERS PASS WASHROOM  
FACILITY AND DAY USE  
AREA

Approved by/Approuvé par  
Approver

Designed by/Concept par  
Designer

Drawn by/Dessiné par  
Author  
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
Parks Canada

Drawing title / Titre du dessin

ELECTRICAL DETAILS

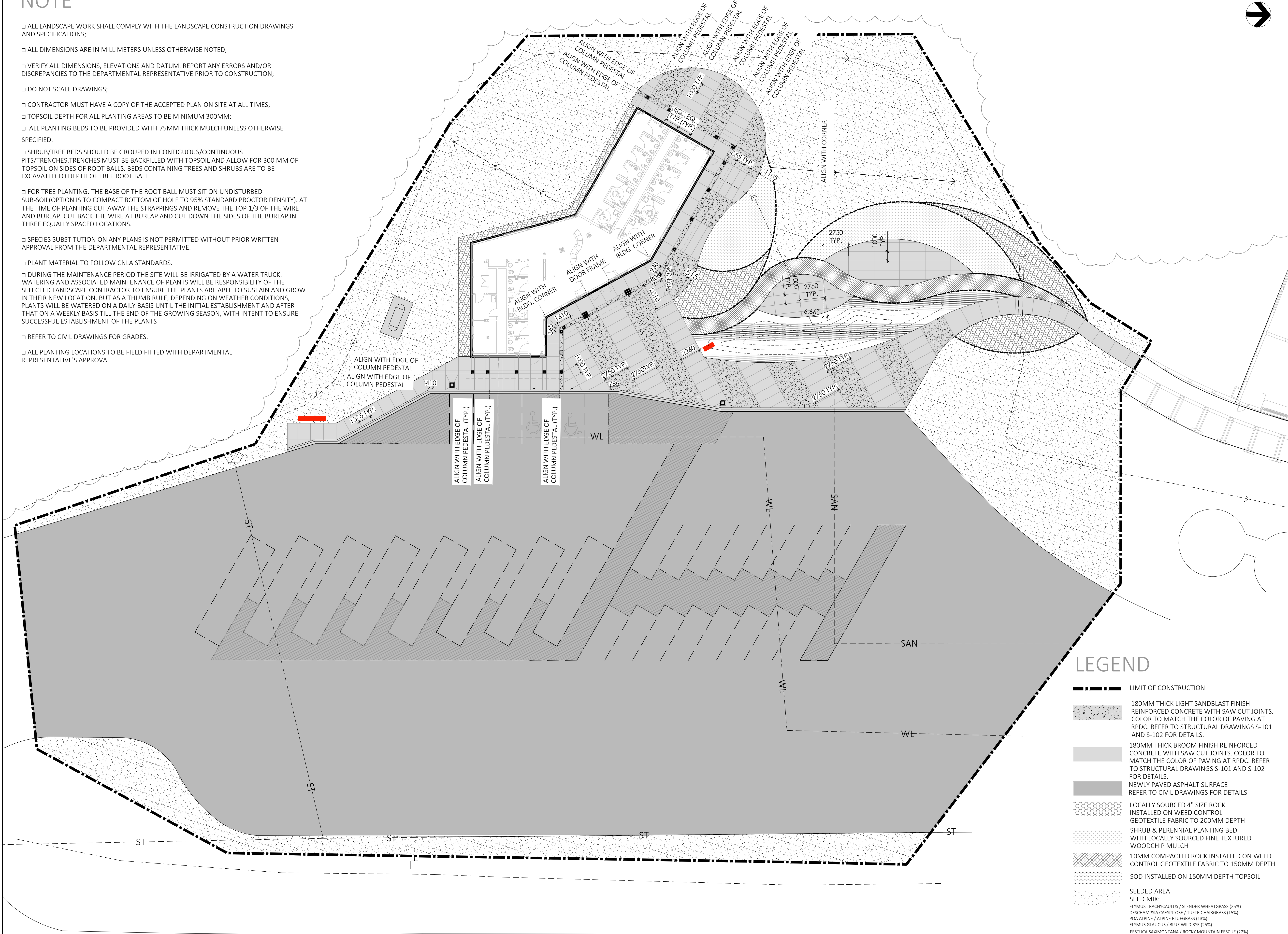
Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	E4	





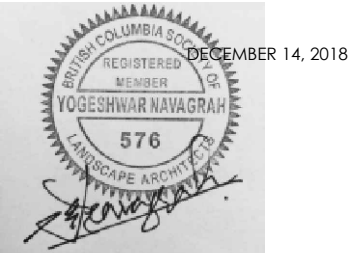
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- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED;
- VERIFY ALL DIMENSIONS, ELEVATIONS AND DATUM. REPORT ANY ERRORS AND/OR DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION;
- DO NOT SCALE DRAWINGS;
- CONTRACTOR MUST HAVE A COPY OF THE ACCEPTED PLAN ON SITE AT ALL TIMES;
- TOPSOIL DEPTH FOR ALL PLANTING AREAS TO BE MINIMUM 300MM;
- ALL PLANTING BEDS TO BE PROVIDED WITH 75MM THICK MULCH UNLESS OTHERWISE SPECIFIED.
- SHRUB/TREE BEDS SHOULD BE GROUPED IN CONTIGUOUS/CONTINUOUS PITS/TRENCHES.TRENCHES MUST BE BACKFILLED WITH TOPSOIL AND ALLOW FOR 300 MM OF TOPSOIL ON SIDES OF ROOT BALLS. BEDS CONTAINING TREES AND SHRUBS ARE TO BE EXCAVATED TO DEPTH OF TREE ROOT BALL.
- FOR TREE PLANTING: THE BASE OF THE ROOT BALL MUST SIT ON UNDISTURBED SUB-SOIL(OPTION IS TO COMPACT BOTTOM OF HOLE TO 95% STANDARD PROCTOR DENSITY). AT THE TIME OF PLANTING CUT AWAY THE STRAPPINGS AND REMOVE THE TOP 1/3 OF THE WIRE AND BURLAP. CUT BACK THE WIRE AT BURLAP AND CUT DOWN THE SIDES OF THE BURLAP IN THREE EQUALLY SPACED LOCATIONS.
- SPECIES SUBSTITUTION ON ANY PLANS IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE.
- PLANT MATERIAL TO FOLLOW CNLA STANDARDS.
- DURING THE MAINTENANCE PERIOD THE SITE WILL BE IRRIGATED BY A WATER TRUCK. WATERING AND ASSOCIATED MAINTENANCE OF PLANTS WILL BE RESPONSIBILITY OF THE SELECTED LANDSCAPE CONTRACTOR TO ENSURE THE PLANTS ARE ABLE TO SUSTAIN AND GROW IN THEIR NEW LOCATION. BUT AS A THUMB RULE, DEPENDING ON WEATHER CONDITIONS, PLANTS WILL BE WATERED ON A DAILY BASIS UNTIL THE INITIAL ESTABLISHMENT AND AFTER THAT ON A WEEKLY BASIS TILL THE END OF THE GROWING SEASON, WITH INTENT TO ENSURE SUCCESSFUL ESTABLISHMENT OF THE PLANTS
- REFER TO CIVIL DRAWINGS FOR GRADES.
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LEGEND

- LIMIT OF CONSTRUCTION
- [Pattern] 180MM THICK LIGHT SANDBLAST FINISH REINFORCED CONCRETE WITH SAW CUT JOINTS. COLOR TO MATCH THE COLOR OF PAVING AT RPDC. REFER TO STRUCTURAL DRAWINGS S-101 AND S-102 FOR DETAILS.
- [Pattern] 180MM THICK BROOM FINISH REINFORCED CONCRETE WITH SAW CUT JOINTS. COLOR TO MATCH THE COLOR OF PAVING AT RPDC. REFER TO STRUCTURAL DRAWINGS S-101 AND S-102 FOR DETAILS.
- [Pattern] NEWLY PAVED ASPHALT SURFACE REFER TO CIVIL DRAWINGS FOR DETAILS
- [Pattern] LOCALLY SOURCED 4" SIZE ROCK INSTALLED ON WEED CONTROL GEOTEXTILE FABRIC TO 200MM DEPTH
- [Pattern] SHRUB & PERENNIAL PLANTING BED WITH LOCALLY SOURCED FINE TEXTURED WOODCHIP MULCH
- [Pattern] 10MM COMPACTED ROCK INSTALLED ON WEED CONTROL GEOTEXTILE FABRIC TO 150MM DEPTH
- [Pattern] SOD INSTALLED ON 150MM DEPTH TOPSOIL
- [Pattern] SEEDED AREA  
SEED MIX:  
ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS (25%)  
DESCHAMPSIA CAESPITOSE / TUFTED HAIRGRASS (15%)  
POA ALPINE / ALPINE BLUEGRASS (13%)  
ELYMUS GLAUCEUS / BLUE WILD RYE (25%)  
FESTUCA SAXIMONTANA / ROCKY MOUNTAIN FESCUE (22%)
- [Pattern] PAINTED ROAD MARKING AS PER BC TRANSPORTATION ROAD STANDARDS
- PAINTED YELLOW LINE FOR VEHICULAR PARKING AS PER BC TRANSPORTATION ROAD STANDARDS
- LIGHT STANDARD REFER TO ELECTRICAL DRAWINGS FOR DETAILS
- ALUMINUM EDGER
- [Pattern] COMMERCIAL GRADE, MILL FINISH, LANDSCAPE EDGER 3/8" INCH (INSTALL AS PER MANUFACTURE'S INSTRUCTIONS)



1	30% REVIEW	180322
2	60% REVIEW	180530
3	CLIENT REVIEW	180627
4	90% REVIEW	180817
5	99% REVIEW SET	181012
6	TENDER	181214

Revision / Revision	Description / Description	Date / Date
Client / client		



ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuve par YN
Designed by/Concept par YN
Drawn by/Dessine par HL/YN
Project Manager/Administrateur de Projets Author
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie Parks Canada
Client / client Parks Canada
Drawing title / Titre du dessin

LAYOUT PLAN  
CONCRETE CONTROL JOINTS  
SCALE: 1:200

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
45392636	L-1.1	



NOTE

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- REFER TO CIVIL DRAWINGS FOR GRADES.
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EXISTING VEGETATION TO  
REMAIN UNDISTURBED

PROPOSED PROPANE TANK TO BE  
CENTERED ON CONCRETE PAD  
REFER TO MECHANICAL DRAWINGS  
FOR DETAILS. CONCRETE PAD  
THICKNESS FOR MECHANICAL PAD  
250MM.

GRASS SWALE. REFER TO CIVIL  
DRAWINGS FOR DETAILS

EXISTING SWALE TO REMAIN  
NO EXCAVATION TO TAKE  
PLACE ON EXISTING SWALE

GRASS SWALE. REFER TO CIVIL  
DRAWINGS FOR DETAILS

MOCK-UP AREA  
CONCRETE FINISHES TO BE REVIEWED ON  
SITE WITH DEPARTMENTAL  
REPRESENTATIVE FOR MOCK-UP AREA  
PRIOR TO PROCEEDING WITH FULL SCOPE  
OF WORK

PROPOSED  
BLDG.

MANHOLE

600MM HIGH  
GRASS BERM

MANHOLE

DEPRESSED CURB  
REFER TO CIVIL DRAWINGS FOR DETAILS

SIGNAGE FOR BARRIER  
FREE PARKING STALLS.  
SUPPLY AND INSTALL  
AS PER BC  
TRANSPORTATION  
STANDARDS

ALIGN SIDE OF LIGHT  
CURB AND BASE WITH  
CURB CORNER

EXISTING VEGETATION TO  
REMAIN UNDISTURBED

EXISTING LANDSCAPE AREA TO  
REMAIN UNDISTURBED

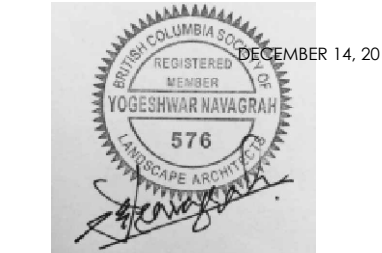
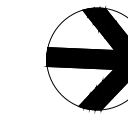
ALIGN WITH WIDTH OF  
EXISTING CONCRETE SIDEWALK

EXISTING LANDSCAPE AREA TO  
REMAIN UNDISTURBED

EDGE OF EXISTING PAVEMENT

LEGEND

- LIMIT OF CONSTRUCTION**
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- LIGHT STANDARD**
- REFER TO ELECTRICAL DRAWINGS FOR DETAILS
- ALUMINUM EDGER**
- COMMERCIAL GRADE, MILL FINISH, LANDSCAPE EDGER 3/8" INCH (INSTALL AS PER MANUFACTURE'S INSTRUCTIONS)



1	30% REVIEW	180322
2	60% REVIEW	180530
3	CLIENT REVIEW	180627
4	90% REVIEW	180817
5	99% REVIEW SET	181012
6	TENDER	181214

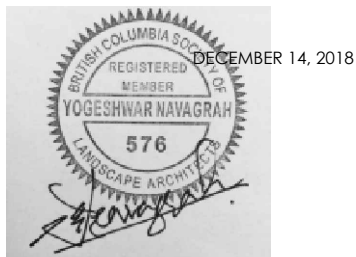
Revision / Revision	Description / Description	Date / Date
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**NAVAGRAH**  
landscape architecture + urban design  
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Project title/Titre du projet

## ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuve par	
YN	

Designed by/Concept par  
YN

Drawn by/Dessine par  
HL/YN

Project Manager/Administrateur de Projets
Author

Architectural and Engineering Resources Manager/  
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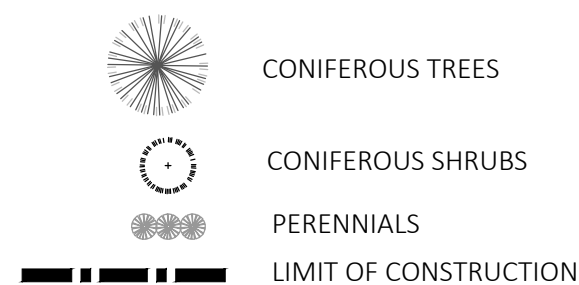
Client / client

Drawing title / Titre du dessin
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## PLANTING PLAN

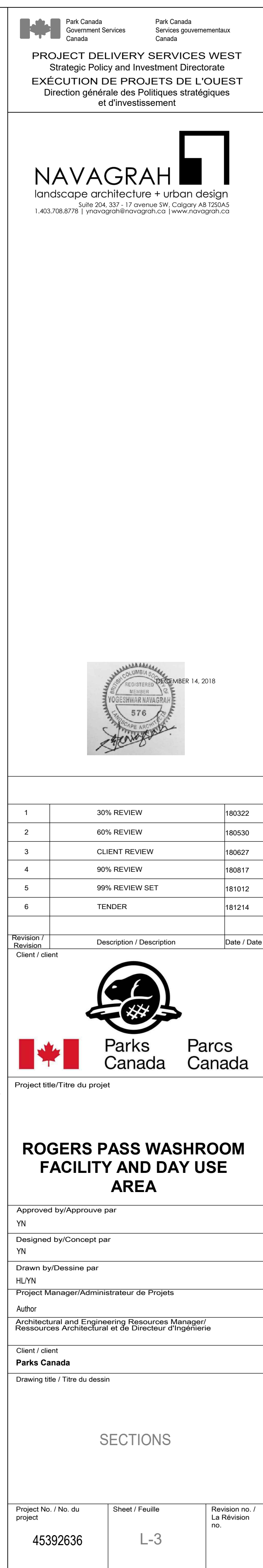
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Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
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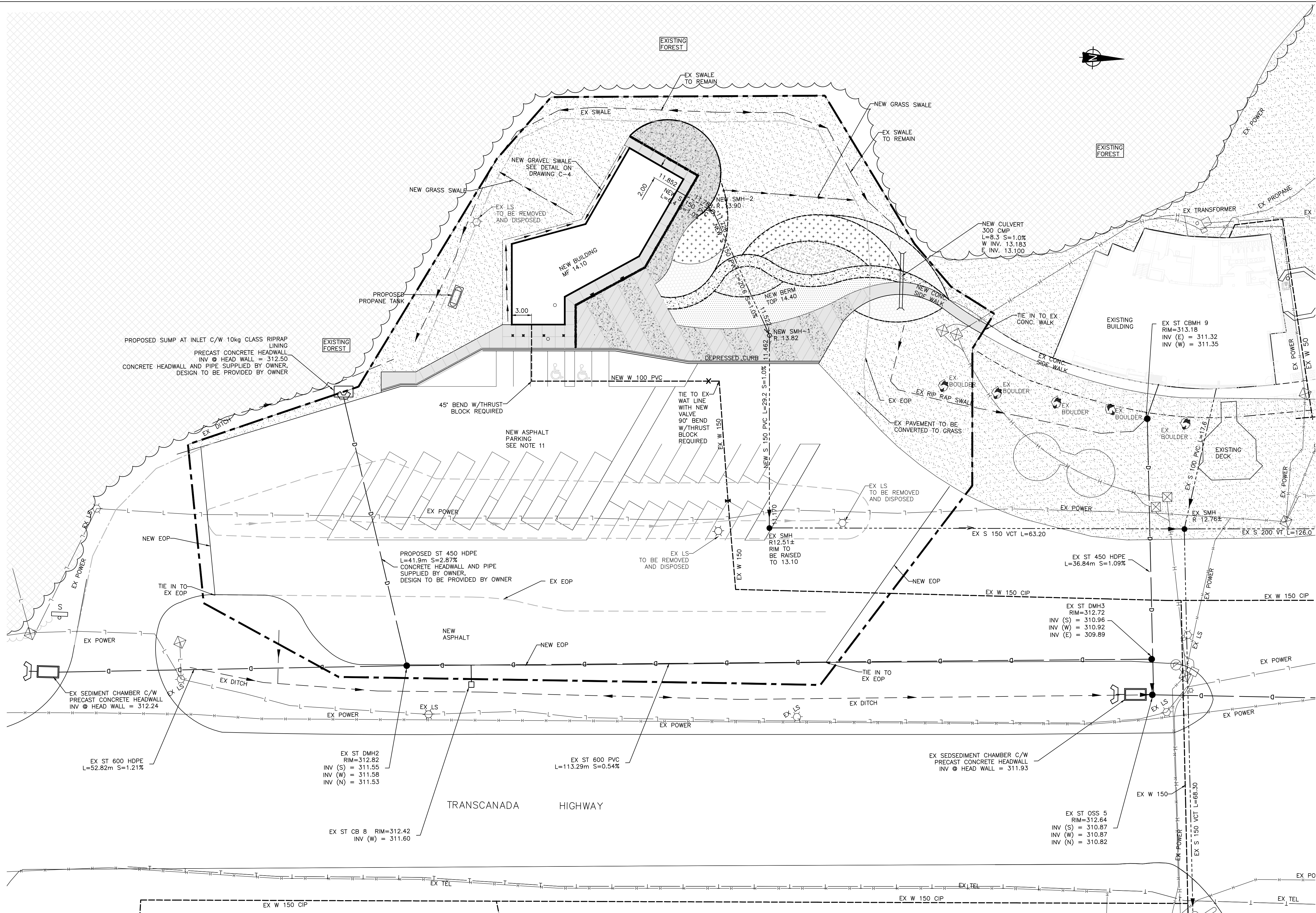


common name		latin name	type	size/ spread	quantity	spacing
WH	coniferous trees					
	WESTERN HEMLOCK	TSUGA HETEROPHYLLA	B&B	2000MM HT.	06	3000MM
WH	WESTERN HEMLOCK	TSUGA HETEROPHYLLA	B&B	3000MM HT.	06	3000MM
common name		latin name	type	size/ spread	quantity	
deciduous shrubs						
	WHITE FLOWERED RHODODENDRON	RHODODENDRON ALBIFLORUM	CONTAINER	600MM HT	34	1000MM
perennials						
	YARROW	ACHILLEA MILLEFOLIUM	CONTAINER	#2 POT.	48	500MM
	PEARLY EVERLASTING	ANAPHALIS MARGARITACEA	CONTAINER	#2 POT.	47	500MM
	WOOLLY PUSSY TOES	ANTENNARIA LANATA	CONTAINER	#2 POT.	172	300MM
	WESTERN COLUMBINE	AQUILEGIA FORMOSA	CONTAINER	#2 POT.	142	300MM









Notes:

- All elevations referenced to 1300m Geodetic Datum
- The contractor is to verify the location of existing sanitary storm and water services and confirm existing inverts prior to installation within the project area. The engineer should be notified immediately of any discrepancies.
- The contractor is responsible for locating all shallow utilities, and the depth of bury. Any conflict should be notified to engineer.
- The contractor and building contractors should check and verify all invert elevations at the building prior to starting site work or building work. Any discrepancies or unsuitability to internal plumbing should be communicated to the engineers. No responsibility shall be undertaken by engineers for discrepancies after start of construction.
- All sewer distribution pipes to be DR 35 PVC, all sewer service pipes to be SDR 28 PVC unless otherwise noted.
- All work and materials done and utilized to conform to specifications attached separately.
- Insulation to be as per specified, attached separately for sanitary sewers, if less than 2.5m cover.
- Match crown minimum at all sewer connections
- No trees to be planted over water line(s)
- Asphalt structure pavement design to follow Geotechnical Engineer specifications. See details on DWG C-4
- For concrete and landscaping finishes, descriptions and details refer to landscaping drawings.

Park Canada  
Government Services  
Canada

Park Canada  
Services gouvernementaux  
Canada

PROJECT DELIVERY SERVICES WEST  
Strategic Policy and Investment Directorate  
EXÉCUTION DE PROJETS DE L'OUEST  
Direction générale des Politiques stratégiques  
et d'investissement

CIVIL ENGINEERING  
SOLUTIONS

204.110 12th Ave. S.W. hbjh@civilengsolutions.ca  
Calgary, AB T2R 0G7 www.civilengsolutions.ca  
Tel: 403-460-2288

Legend:

13.50 FLOW DIRECTION

EXISTING GRADE

PROPOSED FIRE HYDRANT

EXISTING FIRE HYDRANT

EXISTING VALVE

VALVE

WATERMAIN

SANITARY SEWER

STORM SEWER DESIGN BY WEDLER ENGINEERING

EXISTING MANHOLE

PROPOSED MANHOLE

EX CATCH BASIN

MF MAIN FLOOR

PP POWER POLE

CONSTRUCTION BOUNDARY

EX HYDRO

EX STREET LIGHT

EX TELUS

110MM THICK LIGHT SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS

110MM THICK HEAVY SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS

110MM THICK BROOM FINISH CONCRETE WITH SAW CUT JOINTS

GRAVEL

SHRUBS

COMPACTED ROCK

SOD

SEEDING AREA

7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2016	01-09-19
6	REV AS PER COMMENTS FROM PCA	12-13-18
5	NEW PROPANE TANK LOCATION	10-15-18
4	REVISE AS PER COMMENTS FROM PCA	10-2-18
3	90% REVIEW	08-23-18
2	60% REVIEW	06-30-18
1	30% REVIEW	03-28-18
Revision /	Description / Description	Date / Date

Client / client

Parks Canada  
Parcs Canada

Project title/Titre du projet

Glacier National Park,  
BC, Canada

**ROGERS PASS  
WASHROOM AND DAY  
USE AREA**

Approved by/Approve par

HB

Designed by/Concept par

CC

Drawn by/Dessine par

CC/CW

Project Manager/Administrateur de Projets

Author

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

SITE SERVICING PLAN

SCALE: 1:300

Project No. / No. du project

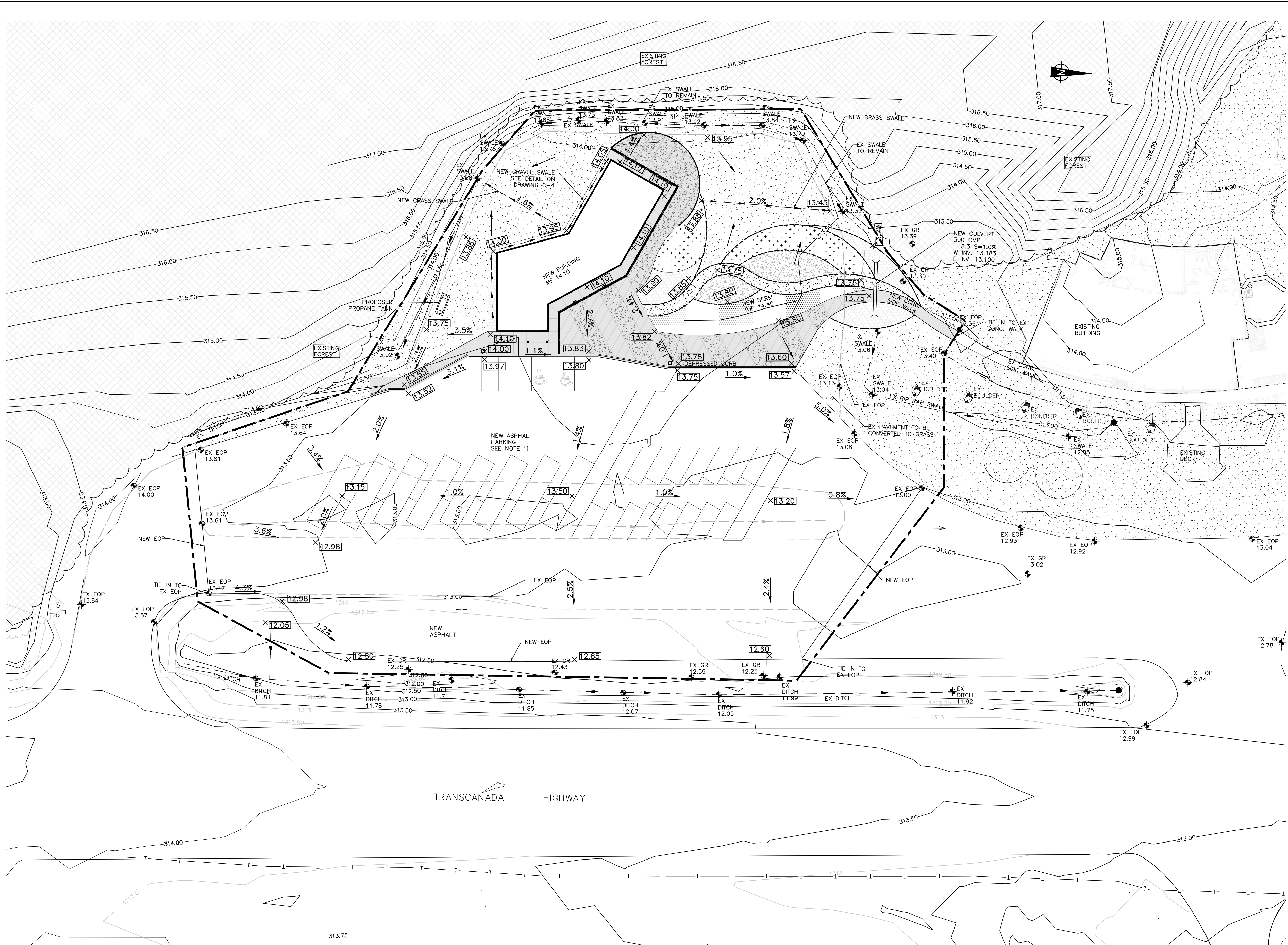
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Sheet / Feuille

C-1

Revision no. /  
La Revision no.





Notes:

1. All elevations referenced to 1300m Geodetic Datum.
2. For detailed landscape finishes, please refer to the landscape plan.
3. All concrete and asphalt areas to be as per geotechnical engineer specifications. See detail on DWG C-4.
4. Existing swale shall need to be graded depending on finished grades and site conditions.





Park Canada  
Government Services  
Canada

Park Canada  
Services gouvernementaux  
Canada

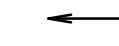
PROJECT DELIVERY SERVICES WEST  
Strategic Policy and Investment Directorate  
EXÉCUTION DE PROJETS DE L'OUEST  
Direction générale des Politiques stratégiques  
et d'investissement

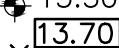



CIVIL ENGINEERING  
SOLUTIONS

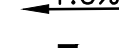
204,110 12th Ave. S.W. hbjh@civilengsolutions.ca  
Calgary, AB T2R 0G7 www.civilengsolutions.ca  
Tel: 403-460-2288


Legend:


 13.50

 13.70

 1.0%

 MF

 PP



FLOW DIRECTION

EXISTING GRADE


DESIGN GRADE


EX CATCH BASIN


MAIN FLOOR


POWER POLE


CONSTRUCTION BOUNDARY

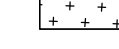
 110MM THICK LIGHT SANDBLAST FINISH  
CONCRETE WITH SAW CUT JOINTS.


 110MM THICK HEAVY SANDBLAST FINISH  
CONCRETE WITH SAW CUT JOINTS.

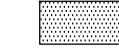
 110MM THICK BROOM FINISH CONCRETE WITH  
SAW CUT JOINTS.

 GRAVEL

 SHRUB

 COMPACTED ROCK

 SOD

 SEEDED AREA

7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2016	01-09-19
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Revision / Revision	Description / Description	Date / Date



Parks  
Canada

Parcs  
Canada

Project title/Titre du projet

Glacier National Park,  
BC, Canada

ROGERS PASS  
WASHROOM AND DAY  
USE AREA

Approved by/Approuvé par  
HB

Designed by/Concept par  
CC

Drawn by/Dessiné par  
CC/CW

Project Manager/Administrateur de Projets  
Author

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie

Client / client  
Parks Canada

Drawing title / Titre du dessin

SITE GRADING PLAN

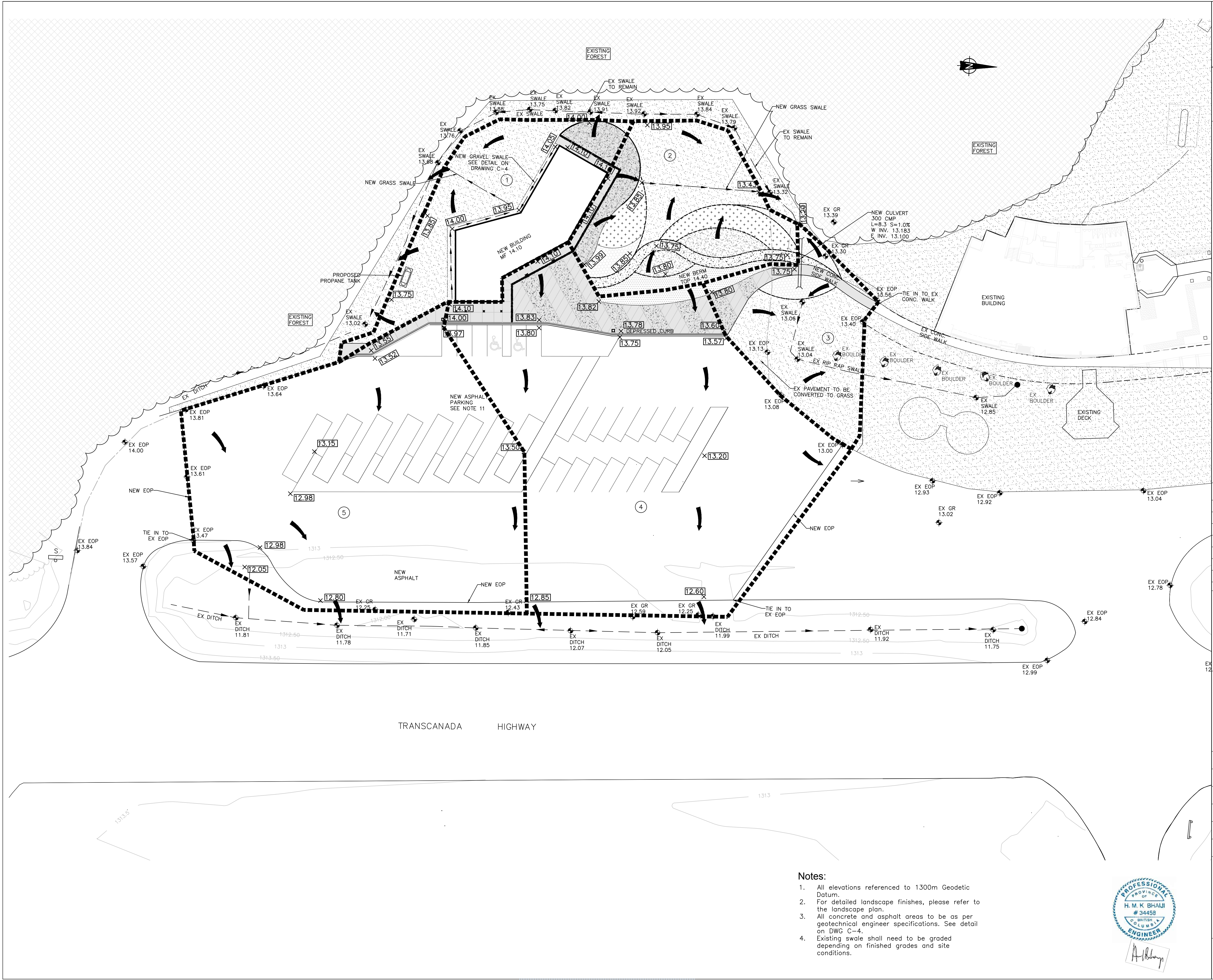
SCALE: 1:300

Project No. / No. du  
project  
CAI 752

Sheet / Feuille  
C-2
























Revision no. /  
La Revision  
no.





- Notes:**
1. All elevations referenced to 1300m Geodetic Datum.
  2. For detailed landscape finishes, please refer to the landscape plan.
  3. All concrete and asphalt areas to be as per geotechnical engineer specifications. See detail on DWG C-4.
  4. Existing swale shall need to be graded depending on finished grades and site conditions.

# Legend:

	13.50	EXISTING GRADE
	13.70	DESIGN GRADE
		EX CATCH BASIN
		MAIN FLOOR
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		

7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2016	01-09-19
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1	30% REVIEW	03-28-18
Revision / Revision	Description / Description	Date / Date



Glacier National Park,  
BC, Canada

**ROGERS PASS  
WASHROOM AND DAY  
USE AREA**

Approved by/Approuvé par HB
Designed by/Concepté par CC
Drawn by/Dessiné par CCOW
Project Manager/Administrateur de Projets Author
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie
Client / client <b>Parks Canada</b>
Drawing title / Titre du dessin

SITE OVERLAND DRAINAGE PLAN

SCALE: 1:300

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	C-3	



Legend:

7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2016	01-09-19
6	REV AS PER COMMENTS FROM PCA	12-13-18
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Revision / Revision	Description / Description	Date / Date

Client / client



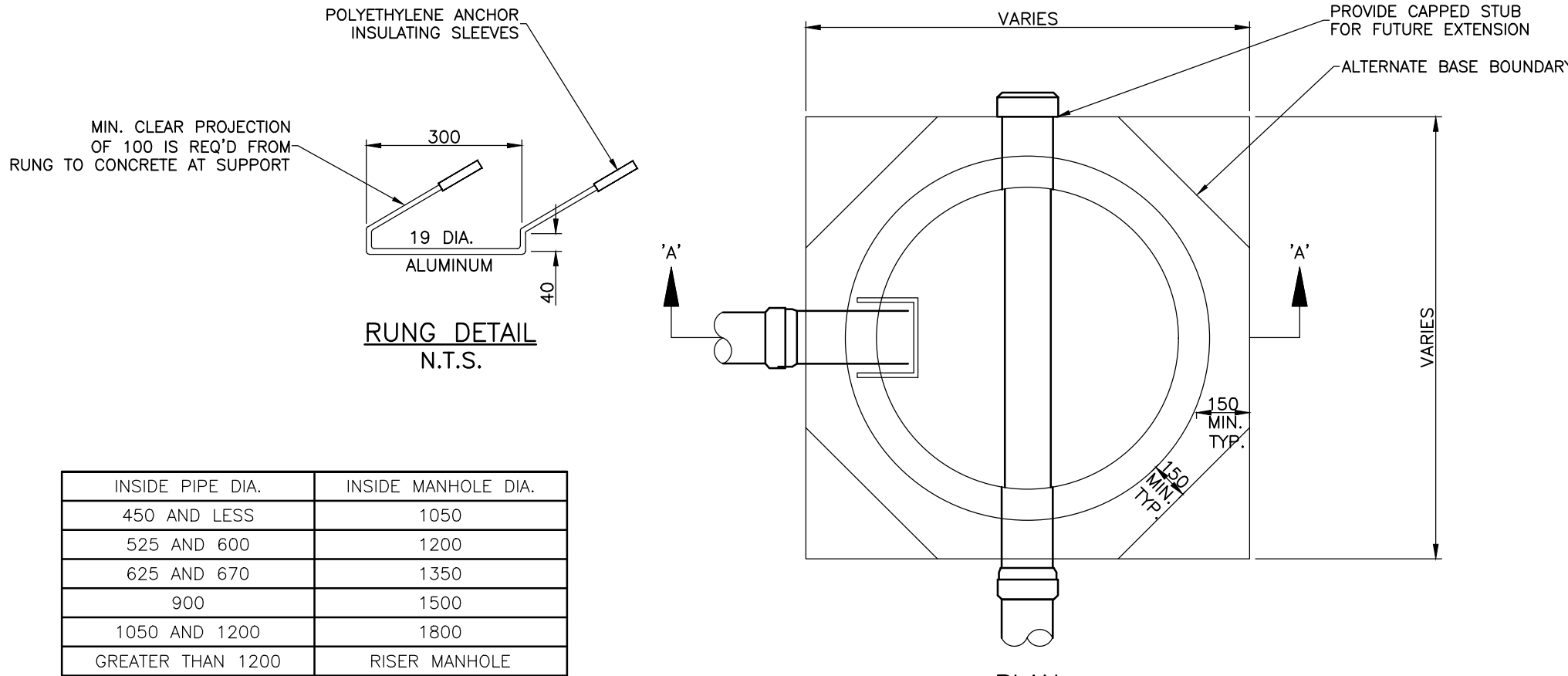
Project title/Titre du projet

Glacier National Park,  
BC, Canada  
**ROGERS PASS  
WASHROOM AND DAY  
USE AREA**

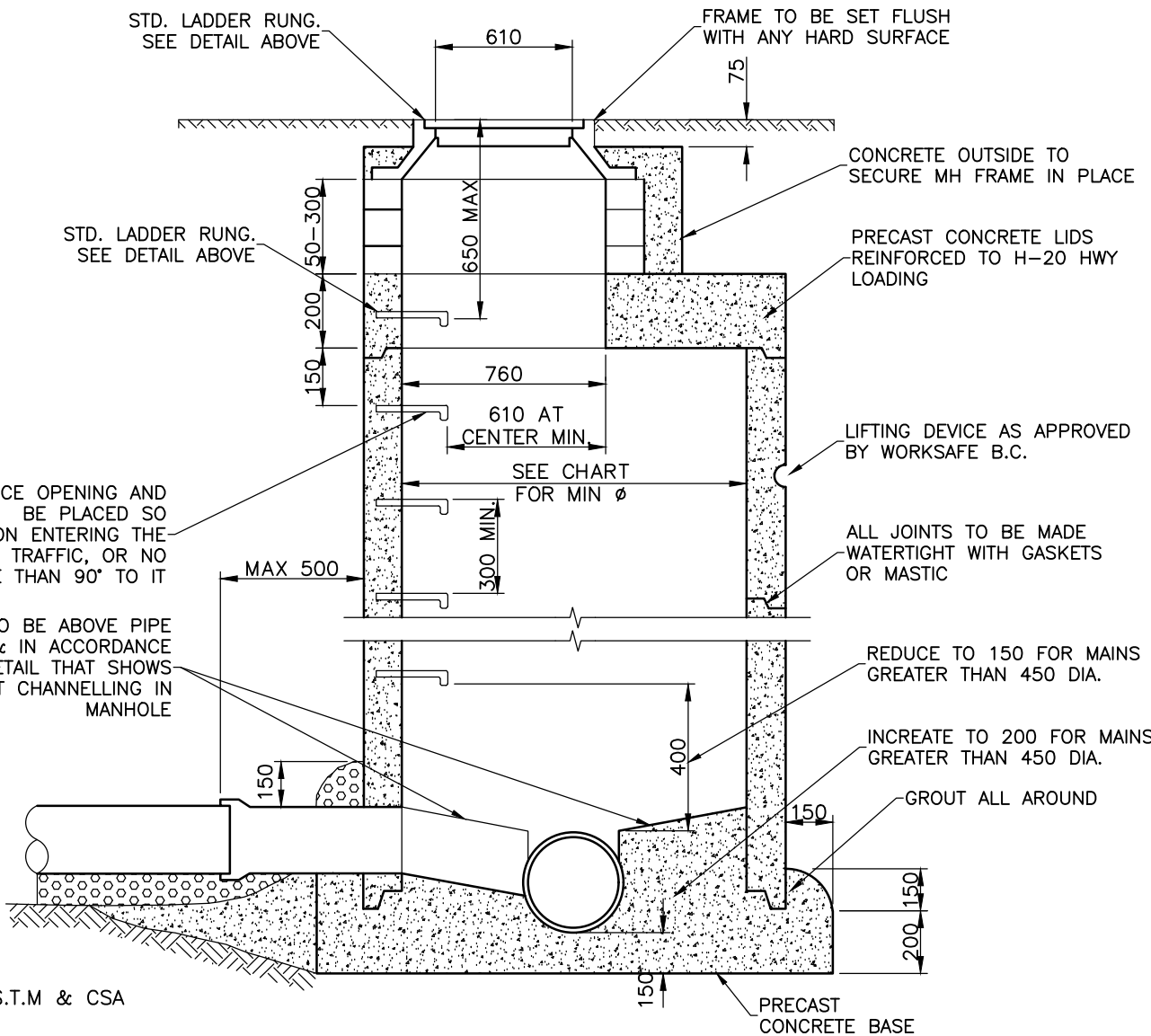
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HB  
Designed by/Concept par  
CC  
Drawn by/Dessiné par  
CC/CW  
Project Manager/Administrateur de Projets  
Author  
Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie  
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Parks Canada  
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DETAILS  
SCALE: NTS

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CAI 752	C-4	

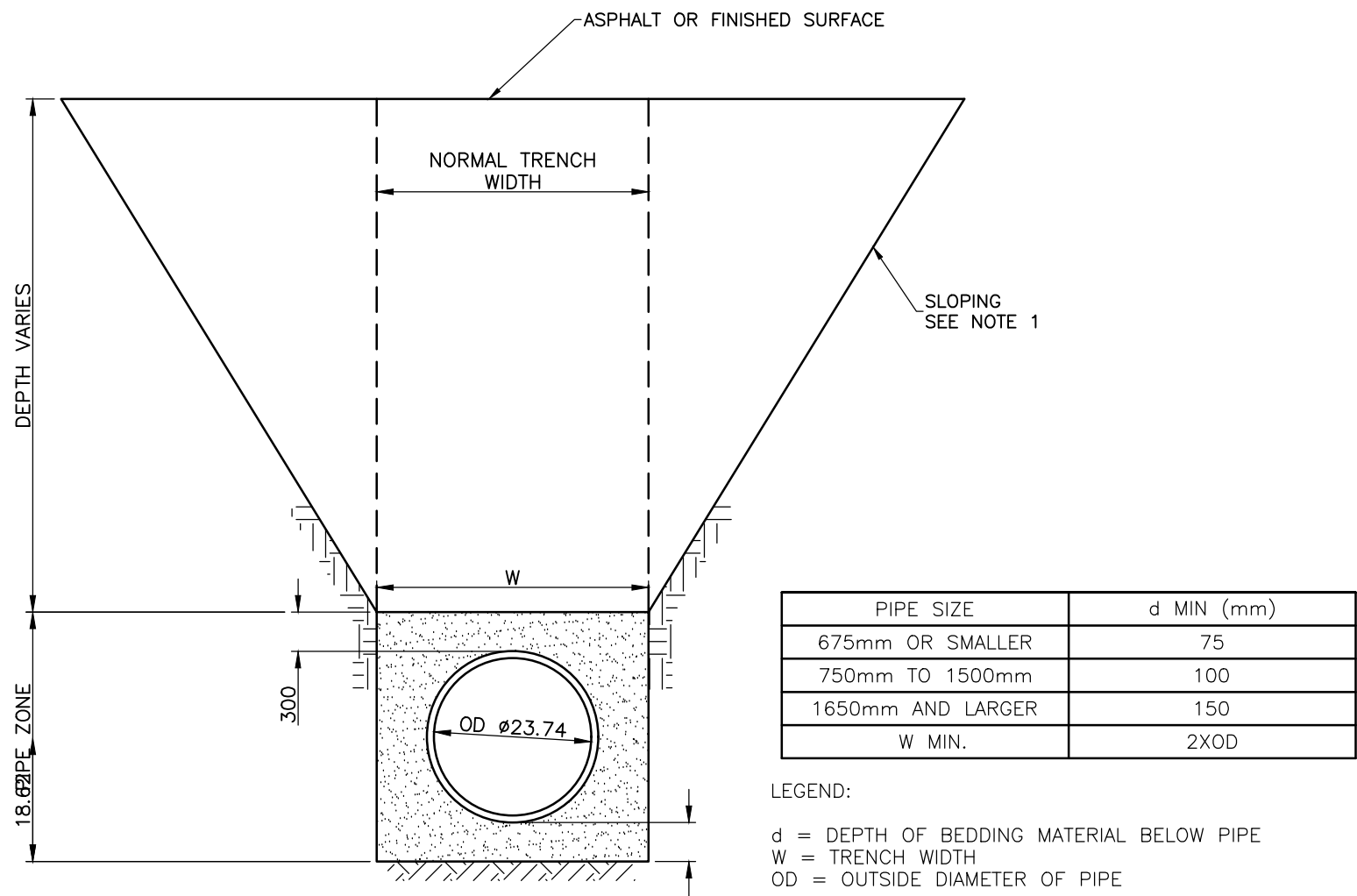


INSIDE PIPE DIA.	INSIDE MANHOLE DIA.
450 AND LESS	1050
525 AND 600	1200
625 AND 670	1350
900	1500
1050 AND 1200	1800
GREATER THAN 1200	RISER MANHOLE



- NOTES:
1. ALL PRECAST M.H.'S MUST CONFORM TO A.S.T.M & CSA SPECIFICATIONS AND HAVE A MIN. 114 WALL THICKNESS
  2. 300 WIDE BENCHING REQUIRED ON BOTH SIDES OF MANHOLE.
  3. ALL PVC PIPES TO HAVE A RUBBER SEAL RING WHERE THEY PASS THROUGH CONCRETE.

TYPICAL DETAIL OF SANITARY MANHOLE  
SECTION 'A'  
N.T.S.

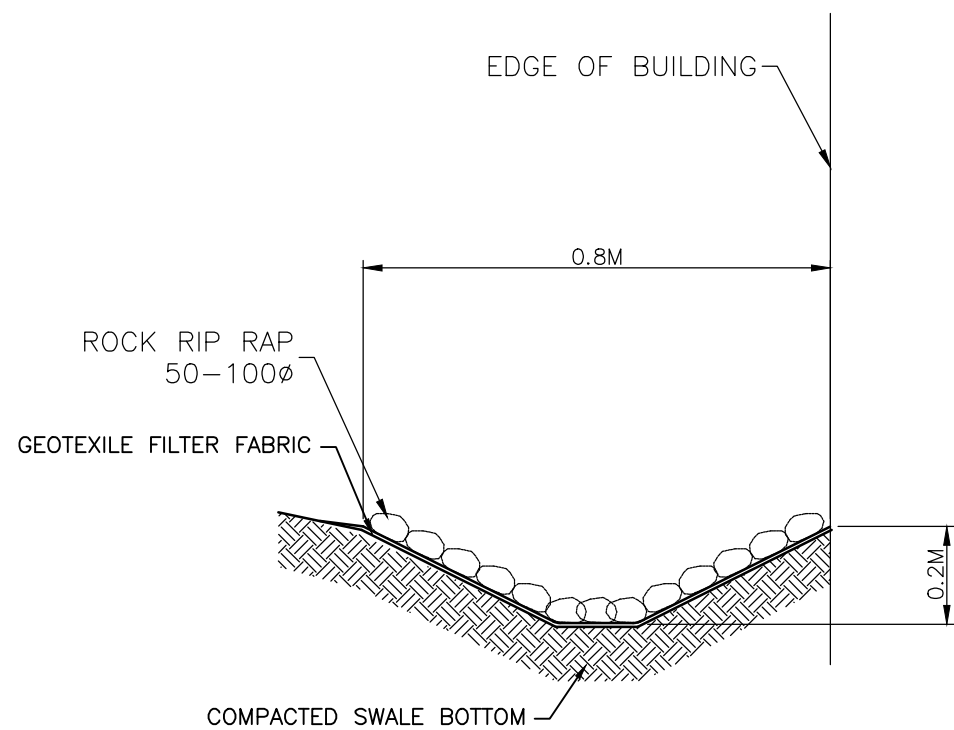


PIPE SIZE	d MIN (mm)
675mm OR SMALLER	75
750mm TO 1500mm	100
1650mm AND LARGER	150
W MIN.	2XOD

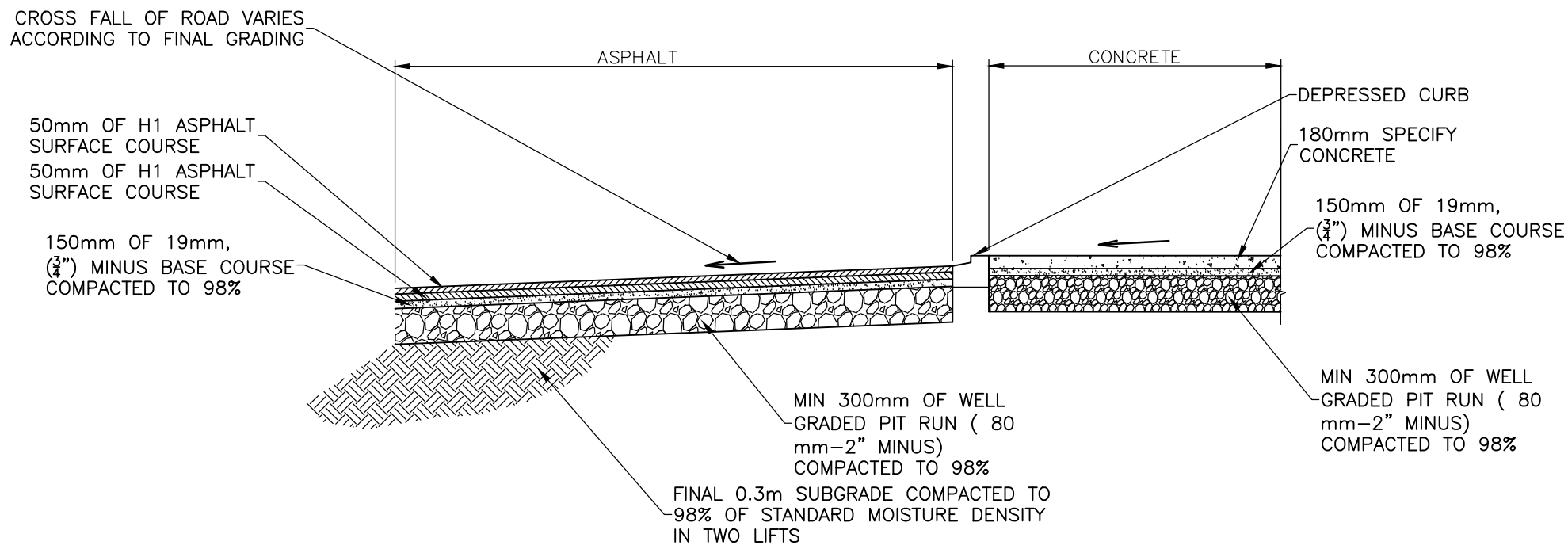
LEGEND:  
d = DEPTH OF BEDDING MATERIAL BELOW PIPE  
W = TRENCH WIDTH  
OD = OUTSIDE DIAMETER OF PIPE

TYPICAL PIPE TRENCH DETAIL  
N.T.S.

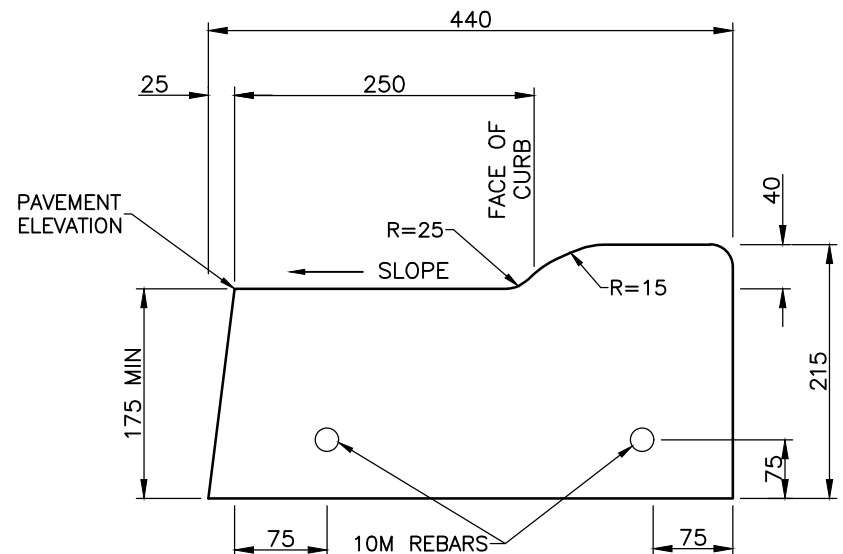
- NOTES:
1. ALL TRENCH WALLS SHALL BE SLOPED OR SHORED DEPENDING ON UNDERGROUND SOIL CONDITIONS AS DIRECTED BY GEOTECHNICAL ENGINEER AND AS PER SAFETY REGULATIONS.
  2. SUBGRADE TO BE SPECIFIED WITH COMPLETE ROADWAY STRUCTURE DESIGN.
  3. APPROVED IMPORTED GRANULAR OR SAND BACKFILL TO BE AS PER DIRECTION BY GEOTECHNICAL ENGINEER.
  4. ANY ADVERSE CONDITIONS FOR TRENCHING DURING CONSTRUCTION SHOULD BE NOTIFIED TO THE ENGINEER.



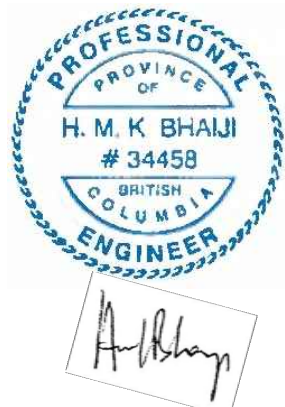
TYPICAL GRAVEL SWALE DETAIL  
N.T.S.



TYPICAL APPROACH & CONCRETE CROSS SECTION  
N.T.S.



DETAIL OF DEPRESSED CURB  
N.T.S.





1	ISSUED FOR TENDER	12-15-18
Revision / Revision	Description / Description	Date / Date

Approved by/Approve par
Designed by/Concept par
Drawn by/Dessine par
Project Manager/Administrateur de Projets Author
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie
Client / client <b>Parks Canada</b>
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Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	I - 1	1

